State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT of ENVIRONMENTAL PROTECTION
AIR QUALITY, ENERGY AND SUSTAINABILITY
Division of Air Quality
Bureau of Stationary Sources
401 E. State Street, 2nd floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

BOB MARTIN
Commissioner

Air Pollution Control Operating Permit
Significant Modification and Preconstruction Approval

Permit Activity Number: BOP160003 **Program Interest Number: 18067**

Mailing Address	Plant Location
DAVID G SCHRUTKA SITE MANAGER EQUISTAR CHEMICALS LP 340 MEADOW RD EDISON TWP, NJ 08817	EQUISTAR CHEMICALS LP 340 Meadow Rd Edison Twp Middlesex County

Initial Operating Permit Approval Date: **October 13, 2004**
Significant Modification Approval Date: **DRAFT**
Operating Permit Renewal Expiration Date: **October 12, 2019**

This significant modification is approved and issued under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). The equipment at the facility must be operated in accordance with the requirements of this permit.

This approval, in response to your application, merges the provisions of the previously approved operating permit and the changes from this significant modification into a single comprehensive permit that replaces the one previously issued. This significant modification allows for the addition of a 351 BHP emergency diesel engine to increase fire water pumping capability.

Equipment at the facility referenced by this significant modification **is covered by** the permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. Pursuant to N.J.A.C. 7:27-22.33(e), this significant modification consists of both a preconstruction approval and operating permit approval. This operating permit does not include compliance schedules as part of the approved compliance plan.

The permittee shall submit to the Department and to the EPA a periodic compliance certification, in accordance with N.J.A.C. 7:27-22.19. The certification shall be submitted electronically through the NJDEP online web portal – Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to DEP Online shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/. The certification should be printed for submission to EPA at the address below. The schedule for compliance certifications set forth in the compliance plan in this operating permit. The annual compliance certification reporting period will cover the calendar year ending December 31. **The annual compliance certification is due to the Department and the EPA within 60 days after the end of each calendar year during which this permit was in effect.**

The annual compliance certification report may also be considered as your six-month deviation report for the period from July 1 through December 31 which is due by January 30 of each year, as required by paragraph 13 in Section E, *General Provisions and Authorities,* of this permit, if the annual compliance certification is submitted by January 30.

Your facility's current approved operating permit and any previous versions (e.g. superseded, expired, or terminated) are now available for download in the PDF format at: http://www.nj.gov/dep/aqpp/. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interested (PI) Number as instructed on the screen. A RADIUS file for your permit, containing Facility Specific Requirements

(Compliance Plan), Inventories, and Compliance Schedules (if needed), can be obtained by contacting your permit writer. Upon importing this information into your personal computer with RADIUS software, you will have up-to-date information in RADIUS format. RADIUS software, instructions, and help are available at the Department's website at www.state.nj.us/dep/aqpp. We also have an Operating Permit Help Line available from 9:00 AM to 4:00 PM daily, where you may speak to someone about any questions you may have. The Operating Permit Help Line number is 609-633-8248.

If, in your judgment, the Department is imposing any unreasonable condition of approval in this permit modification action, you may contest the Department's decision on the modification and request an adjudicatory hearing pursuant to N.J.S.A. 52:14b-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information requested in N.J.A.C. 7:27-1.32 and the information on the enclosed Administrative Hearing Request Checklist and Tracking Form.

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application. The Operating Permit Renewal Application consists of a RADIUS application and the Application Attachment available in Portable Document Format (PDF) and MS Word format at the Department's website http://www.nj.gov/dep/aqpp/applying.html (check Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: http://njdeponline.com/. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, an application for renewal of the operating permit shall include all of the information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that the Department can notify the applicant of any deficiencies in the application. This will allow the permittee to correct any deficiencies, and to better ensure that the application is administratively complete by the renewal deadline. Only applications which are timely and administratively complete will be eligible for coverage by an application shield.

Permittees that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. Details of the rule and guidance on how to prepare a plan can be found at EPA's website: www.epa.gov/ttn/emc/cam.html. In addition, CAM Plans must be included as part of the permit renewal application. Permittees that do not submit a CAM Plan may have their modification applications denied, pursuant to N.J.A.C. 7:27-22.3.

If you have any questions regarding this permit approval, please call your permit writer, Mubin Kathrada, at (609) 633-1134.

Approved by:

_____
Yogesh Doshi
Bureau of Stationary Sources

Enclosure
CC: S. Riva
United States Environmental Protection Agency, Region II
Air Compliance Branch
290 Broadway
New York, New York 10007-1866

Administrative Hearing Request Checklist and Tracking Form

I. Document Being Appealed

Name of the Facility	Program Interest (PI) Number	Permit Activity Number	Issuance Date
EQUISTAR CHEMICALS LP	18067	BOP160003	

II. Contact Information

Name of Person Requesting Hearing	Name of Attorney (if applicable)
Address:	**Address:**
Telephone:	**Telephone:**

III. Please include the following information as part of your request:

A. The date the permittee received the permit decision,
B. One printed and two PDF (or scanned) copies of the document being appealed saved on two CDs – for submitting to address 1 below;
A PDF (or scanned) copy of all documents being submitted to the Office of Legal Affairs saved on a CD – for submitting to address 2 below**;**
C. The legal and factual questions you are appealing;
D. A statement as to whether or not you raised each legal and factual issues during the permit application process;
E. Suggested revised or alternative permit conditions;
F. An estimate of the time required for the hearing;
G. A request, if necessary, for a barrier-free hearing location for physically disabled persons;
H. A clear indication of any willingness to negotiate a settlement with the Department prior to the Departments processing of your hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection
Office of Legal Affairs
Attention: Adjudicatory Hearing Requests
401 E. State Street, P.O. Box 402
Trenton, New Jersey 08625-0402

2. Mr. Bachir Bouzid
Bureau of Stationary Sources
New Jersey Department of Environmental Protection
401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02
Trenton, New Jersey 08625-0420
Phone: (609) 633-2829

_____ _____
Signature **Date**

Administrative Hearing Request Checklist and Tracking Form

IV. If you are not the applicant but rather an interested person claiming to be aggrieved by the permit decision, please include the following information:

1. The date you or your agent received notice of the permit decision (include a copy of that permit decision with your hearing request);
2. Evidence that a copy of the request has been delivered to the applicant for the permit which is the subject of the permit decision;
3. A detailed statement of which findings of fact and/or conclusion of law you are challenging;
4. A description of your participation in any public hearings held in connection with the permit application and copies of any written comments you submitted;
5. Whether you claim a statutory or constitutional right to a hearing, and, if you claim such a right, a reference to the applicable statute or explanation of how your property interests are affected by the permit decision;
6. If the appeal request concerns a CAFRA permit decision, evidence that a copy of the request has been delivered to the clerks of the county and the municipality in which the project which is the subject of the permit decision is located;
7. Suggested revised or alternative permit conditions;
8. An estimate of the time required for the hearing;
9. A request, if necessary, for a barrier-free hearing location for physically disable persons;
10. A clear indication of any willingness to negotiate a settlement with the Department prior to the Department's transmittal of the hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection
   Office of Legal Affairs
   Attention: Adjudicatory Hearing Requests
   401 East State Street, P.O. Box 402
   Trenton, New Jersey 08625-0402

3. Mr. Bachir Bouzid
   Bureau of Stationary Sources
   New Jersey Department of Environmental Protection
   401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02
   Trenton, New Jersey 08625-0420
   Phone: (609) 633-2829

_____ _____

Signature **Date**

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

TABLE OF CONTENTS

Section A

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

REASON FOR PERMIT

The reason for issuance of this permit is to comply with the air pollution control permit provisions of Title V of the federal Clean Air Act, federal rules promulgated at 40 CFR 70, and state regulations promulgated at N.J.A.C. 7:27-22, which requires the state to issue operating permits to major facilities and minor facilities that are in certain designated source categories. This is the operating permit for the facility listed on the cover page, which includes a significant modification to allow for the addition of a 351 BHP emergency diesel engine to increase fire water pumping capability.

New Jersey has elected to integrate its Title I New Source Review (NSR) preconstruction permits with the new Title V operating permits instead of issuing separate permits. Consequently, the existing preconstruction permit provisions that were previously approved for this facility have been consolidated into this permit. This permit may also include applicable requirements for grandfathered sources.

This permit action consolidates previously approved permit terms and conditions into one single permit for the facility. The New Jersey Department of Environmental Protection (Department) issues this operating permit authorizing the facility to operate equipment and air pollution control devices. In the operating permit application, the facility represented that it meets all applicable requirements of the federal Clean Air Act and the New Jersey Air Pollution Control Act codified at N.J.S.A. 26:2C. Based on an evaluation of the data contained in the facility's application, the Department has approved this operating permit.

This permit allows this facility to operate the equipment and air pollution control devices specified in this permit and emit up to a level specified for each source operation. The signatories named in the application are responsible for ensuring that the facility is operated in a manner consistent with this permit, its conditions, and applicable rules.

Section B

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

DEFINITIONS

The terms used in this permit are used consistent with the definitions at N.J.A.C. 7:27-1 and N.J.A.C. 7:27-22. Any terms defined in this section are not defined at N.J.A.C. 7:27-1 or N.J.A.C. 7:27-22, and are needed for clarifying the permit.

"Permitting Authority" means the New Jersey Department of Environmental Protection (NJDEP).

"The EPA," or the "Administrator," means the Administrator of the EPA or his designee.

"M" preceding a unit of measure means one thousand. For example, "10 M gal." means ten thousand gallons.

"MM" preceding a unit of measure means one million. For example, "10 MM gal." means ten million gallons.

"Grandfathered" means, in reference to equipment or control apparatus, that construction, reconstruction, or modification occurred prior to enactment of N.J.S.A. 26:2C-9.2 on June 15, 1967, or prior to the subsequent applicable revisions to rules and regulations codified at N.J.A.C. 7:27-8 that occurred March 5, 1973, June 1, 1976, April 5, 1985, and October 31, 1994, and no construction, reconstruction, or modification of the equipment or control apparatus has occurred since.

"Compliance Plan" means the applicable requirements, monitoring requirements, recordkeeping requirements, and submittal/action requirements detailed in Section G, Facility Specific Requirements, of the operating permit.

Section C

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all significant source operations at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)											
Source Categories	Primary						Secondary				
	VOC (total)	NO_x	CO	SO_2	TSP (total)	Other* (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e[1]
Emission Units Summary	53.568	18.039	14.471	2.02	6.247	-	6.247	6.247	-	54.357	
Batch Process Summary	-	-	-	-	-	-	-	-	-	-	
Group Summary	-	-	-	-	-	-	-	-	-	-	
Total Emissions from Significant Source Operations[2]	53.568	18.149	14.491	2.02	6.25	-	6.57	6.25	-	54.357	26,525

Table 2: Estimate of total emissions from all insignificant source operations and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)										
Source Categories	Primary						Secondary			
	VOC (total)	NO_x	CO	SO_2	TSP (total)	Other (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs (total)
Estimate of Total Emissions from Insignificant Source Operations[2]	4.045	0.05	1.758	0.003	0.003	-	0.003	0.003	-	-
Total Non-Source Fugitive Emissions[3]	7.063	-	-	-	6.615	-	6.615	6.615	-	13.447

VOC: Volatile Organic Compounds
NOx: Nitrogen Oxides
CO: Carbon Monoxide
SO2: Sulfur Dioxide
TSP: Total Suspended Particulates
Other: Any other air contaminant regulated under the Federal CAA
PM_{10}:Particulates under 10 microns
$PM_{2.5}$: Particulates under 2.5 microns
Pb: Lead
HAPs: Hazardous Air Pollutants
CO2e: Carbon Dioxide equivalent

*Emission summary of individual HAPs and Other Air Contaminants is provided on next page.

[1] Total CO_2e emissions for the facility that includes all significant sources (emission units, batch process, group) and insignificant sources.
[2] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C 7:27-22.1.
[3]Non-Source fugitive emissions are defined at N.J.A.C 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C 7:27-22.2(a)2.

Section C

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

POLLUTANT EMISSIONS SUMMARY

The following table shows the hazardous air pollutants (HAP) emissions summary[4]:

HAP	TPY
Benzene	0.276
Dibutyl Phthalate	2.0
Formaldehyde	-
Ethyl Chloride	7.85
Hexane	35.67
Hydrogen Chloride	3.0
Phthalic Anhydride	0.5
Toluene	3.7
Titanium Tetrachloride	1.23

The following table shows the "Other" air contaminants emissions summary:

Other Air Contaminant	TPY

[4] Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section D

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

POLLUTION PREVENTION REPORTING

General Pollution Prevention Conditions

The following evaluation requirements are included to track the facility's progress in several critical areas identified in the National Environmental Performance Partnership System (NEPPS). Nitrogen Oxides (NOx) and Volatile Organic Compounds (VOC) are precursors to the air pollutant Ozone, for which New Jersey is non-attainment with the air quality standard for the protection of public health. The control of hazardous air pollutants (HAPs) is also a focus item for the next decade in order to minimize localized hot spots and general urban air toxics levels. Therefore, the Department is requiring evaluation of emission trends at 5-year intervals for major sources of these air contaminants. Also, as part of significant modification applications, proposed major increases of these air contaminants require evaluation of pollution prevention and cross media effects.

The evaluation of these trends requires no increased monitoring. Rather it utilizes existing monitoring data, as reported annually in Emission Statements (for NOx and VOC) and annual Release and Pollution Prevention Reports (for HAPs). The intent of this evaluation is to better utilize the existing data by having the company, the public and the Department review major source trends periodically, as part of the 5-year renewal review and public comment process.

Pollution prevention includes changes that result in the reduction in use or generation of non-product output per unit of product. Cross media effects are practices that result in transferring the ultimate release or disposal of a contaminant from one environmental medium (e.g. air) to another environmental medium (e.g. water, solid or hazardous wastes).

Information to include with the renewal application:

1. The facility will evaluate annual emission trends over the last five years for actual air contaminant emissions of Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx), if the facility's potential to emit VOC or NOx is greater than 25 tons per year, or any Hazardous Air Pollutants (HAP), for which the facility's potential to emit is greater than 10 tons per year. The VOC and NOx emission data should reflect annual emission statement reports submitted pursuant to N.J.A.C. 7:27-21, and the HAP emissions data should reflect the annual Release and Pollution Prevention Report submitted pursuant to N.J.A.C. 7:1G-4 and 5 and N.J.A.C. 7:1K-6. Although not required, the Department encourages the facility to explain the reason for any significant trend, including whether it is the result of cross media shifts (to air, water, or solid waste) and/or pollution prevention. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NOx or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

2. The facility will summarize annual potential to emit limits (allowable emissions) for VOC, NOx, and HAPs, which are subject to reporting under 1 above, for the last five years. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NOx or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

3. The facility will summarize five-year trends in annual VOC, NOx, and HAP emissions, which are subject to reporting under 1 above, on a pound per unit of product basis, based on annual actual emissions and annual production over the five-year period. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NOx or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

4. The facility will discuss five-year trends in actual air contaminant emissions of non-source VOC and HAP fugitives, which are subject to reporting under 1 above; explain measures taken to minimize such fugitives; and provide an explanation for any significant changes.

Information to include with an application for a Significant Modification to this permit:

1. For any significant modifications, the facility is encouraged to explain any cross media shifts of VOC and HAP air contaminants as part of the significant modification application. If an explanation is provided, the facility should identify the pollutant and the specific environmental media to which the pollutant is anticipated to be transferred, whether it be from air to solid waste or water, or from water or solid waste to the air.

Section E

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

GENERAL PROVISIONS AND AUTHORITIES

Operating Permits

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant which occurs only in areas over which the permittee has exclusive use or occupancy. Conditions relative only to nuisance situations, including odors, are not considered Federally enforceable. [N.J.A.C. 7:27-22.16(g)8]

2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:

   If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:

   i. Immediately on the Department hotline at 1-877-927-6337, pursuant to N.J.S.A. 26:2C-19(e); and

   ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or

   If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or

   If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 P.M. of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]

3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]

4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]

5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]

7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]

8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]

9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]

10. The Department and its authorized representatives shall have the right to enter and inspect any facility subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]

11. The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]

12. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]

13. In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d) 3, each permittee shall submit to the Department a six-month deviation report relating to testing and monitoring required by the operating permit, not including information for testing and monitoring which have other reporting schedules specified in the permit. Normally, stack testing reporting is submitted within 45 days of test completion and continuous monitoring reporting is done quarterly. The six-month report must address other specified monitoring, including, but not limited to, continuous and periodic monitoring data required by this permit. (See column two and three entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, in the Facility Specific Requirement Section of this permit.). The six month reports for the testing and monitoring performed from January 1 through June 30, shall be reported by July 30 of the same calendar year; or from July 1 through December 31, shall be reported by January 30 of the following calendar year. Pursuant to N.J.A.C. 7:27-22.19(e), these six month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions taken. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. The report shall be certified pursuant to N.J.A.C. 7:27-1.39 by a responsible official. The submittal procedure is listed in column entitled “Submittal/Action Requirement” in the Facility Specific Requirement Section FC of this permit. [N.J.A.C. 7:27-22.19(d) 3 and N.J.A.C. 7:27-22.19(e)]

    An annual compliance certification required by paragraph 2 above and required by N.J.A.C. 7:27-19(f) may also be considered as your six-month deviation report for the period from July 1 through December 31 which is due by January 30 of each year if the annual compliance certification is submitted by January 30.

14. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described in 15 below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.

15. For situations other than those covered by 14 above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:

    i. The violation occurred as a result of an equipment malfunction, an equipment start-up or shutdown, or during the performance of necessary equipment maintenance; and

    ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]

16. Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the facility makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the facility must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The facility is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. The facility is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]

17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on-site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.

    a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.

    b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.

    c. The permittee cannot use temporary mobile equipment unless the owner of the subject equipment has obtained and maintains an approved mobile preconstruction permit, issued pursuant to N.J.A.C. 7:27-8, prior to bringing the temporary mobile equipment to operate at the major facility.

    d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved mobile preconstruction permit when the temporary mobile equipment operates on the property of the permittee.

    e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of ninety (90) days during any calendar year.

    f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i) 3.

    g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on-site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.

    h. Where short-term activities (employing temporary mobile equipment) will re-occur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.

18. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly

and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]

19. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]

20. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22, unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]

21. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.

22. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.

23. The permittee shall file a timely and complete application for:

    Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
    Seven-Day-Notice changes [N.J.A.C. 7:27-22.22(e)];
    Minor Modifications [N.J.A.C. 7:27-22.23(e)];
    Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
    Renewals [N.J.A.C. 7:27-22.30(b).

24. Except as allowed in Technical Manual 1005, or otherwise allowed by the Department in this permit or in written guidelines/ procedures issued or approved by the Department, process monitors required by the Compliance Plan included in this permit must be operated at all times when the associated process equipment is operating. The permittee must keep a service log to document any outage.

Section F

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable state requirements. The applicable state requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

SECTION	SUBJECT ITEM	ITEM #	REF. #
E	---	15	---
G	FC	---	3
G	FC	---	9

Section G

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

COMPLIANCE PLAN AND INVENTORIES

- FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX
- FACILITY SPECIFIC REQUIREMENTS (COMPLIANCE PLAN)
- FACILITY PROFILE (ADMINISTRATIVE INFORMATION)
- REASON FOR APPLICATION
- NON-SOURCE FUGITIVE EMISSIONS
- INSIGNIFICANT SOURCE EMISSIONS
- EQUIPMENT INVENTORY
- EQUIPMENT DETAILS
- CONTROL DEVICE INVENTORY
- CONTROL DEVICE DETAILS
- EMISSION POINT INVENTORY
- EMISSION UNIT/BATCH PROCESS INVENTORY

Facility Name: EQUISTAR CHEMICALS LP
Program Interest Number: 18067
Permit Activity Number: BOP160003

FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX

EQUISTAR CHEMICALS LP (18067) Date: 9/15/2016

BOP160003

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FC**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: Defines numerous terms used in N.J.A.C. 7:27. Specifies procedures for making confidentiality claims, certifying applications, reports, and other documents to the Department, and requesting adjudicatory hearings and stays of the effective date of departmental decisions. Also, provides provisions regarding applicability, severability, and liberal construction of N.J.A.C. 7:27. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: Prohibits any person from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: Notwithstanding compliance with other subchapters of N.J.A.C. 7:27, no person shall suffer, allow, or permit to be emitted into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. Applicable to all facilities located in New Jersey. [N.J.A.C. 7:27- 5]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Prevention and Control of Air Pollution Control Emergencies: Requires that written Standby Plans, consistent with good industrial practice and safe operating procedures, be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person responsible for the operation of a source of air contamination not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offsets Rules. [N.J.A.C. 7:27-18]	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [N.J.A.C. 7:27-18].	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [N.J.A.C. 7:27-18].	Comply with the requirement: Upon occurrence of event. Submit an administratively complete application when applying for a minor modification pursuant to N.J.A.C. 7:27-22.23 or a significant modification pursuant to N.J.A.C. 7:27-22.24. [N.J.A.C. 7:27-22]
6	Emissions Statements: Submit an annual emission statement (if required) electronically to the NJDEP by May 15 of each year (or by mutually agreed upon date, but no later than June 15 of each year). [N.J.A.C. 7:27-21]	Other: The emission statement will be based on monitoring, recording and recordkeeping of actual emissions, capture and control efficiencies, process rate and operating data for source operations with the potential to emit certain air contaminants. [N.J.A.C. 7:27-21].	Other: The emission statement and all supporting records shall be maintained on the operating premises for a period of five (5) years from the due date of each emission statement. [N.J.A.C. 7:27-21].	Submit an Annual Emission Statement: Annually (if required) electronically by May 15 or by any mutually agreed upon date, but not later than June 15 of each year. [N.J.A.C. 7:27-21]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: Submit annual compliance certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f), within 60 days after the end of each calendar year during which this permit was in effect. [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. The annual compliance certification reporting period will cover the calendar year ending December 31. The certification shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/. The certification should be printed for submission to EPA. [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings. [N.J.A.C. 7:27-24] and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]
10	Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [40 CFR 52.21].	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [40 CFR 52.21].	Comply with the requirement: Upon occurrence of event. If subject to PSD, the permittee shall submit an administratively complete application when applying for a significant modification pursuant to N.J.A.C. 7:27-22.24. [N.J.A.C. 7:27-22]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61]
12	Protection of Stratospheric Ozone:1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Report: In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d)3, the permittee shall submit to the Department a certified six-month deviation report relating to testing and monitoring required by the operating permit, not including information for stack emissions testing or continuous emissions monitoring which have other reporting schedules specified in the permit (normally, stack test report is submitted within 45 days of test completion and continuous monitor reporting is done quarterly). Pursuant to N.J.A.C. 7:27-22.19(e), the six-month report must address other specified monitoring, including continuous and periodic monitoring requirements found in column 2 and 3, entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, of the Facility Specific Requirements section of this permit. These six-month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions or preventive measures taken. If no deviations occurred, the report should say so. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. [N.J.A.C. 7:27-22.19(d)3, N.J.A.C. 7:27-22.19(e), and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)].	Submit a report: As per the approved schedule. The six-month reports for other specified testing or monitoring required by the operating permit performed from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The report shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/ . [N.J.A.C. 7:27-22]
14	No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG1 Non-Source Piping Leaks**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The provisions of [N.J.A.C. 7:27-16.18] shall only to equipment in contact with a substance that is 10 percent by weight or greater applicable VOC, and the total quantity of applicable VOC processed in the equipment is greater than 550 tons per year. The total quantity processed shall include the total annual quantity of applicable VOC charged to all operations for which the equipment is used and does not include any in-process recycled and in-process refluxed applicable VOC and any applicable VOC and any applicable VOC which is generated during the process. [N.J.A.C. 7:27-16.18]	None.	None.	None.
2	No person shall cause, suffer, allow or permit a regulated leak of any applicable VOC from any pressure device or any other component without moving parts unless one of the following conditions is satisfied: 1. The person first attempts to repair the regulated leak, and completes the repair, as soon as is practicable but not beyond the time allotted for each of those actions in Table 18A; 2. The leak is an overpressure release discharge from a pressure relief device, for which the pressure relief device is designed, and the release is properly reported pursuant to any applicable law or rule; or 3. The leak is a discharge to an emergency device (such as a flare) that is designed to combust gases generated during process upsets or emergency events. [N.J.A.C. 7:27-16.18(c)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	No person shall cause, suffer, allow or permit a regulated leak of any applicable VOC from any agitator or any other component with moving parts unless the person first attempts to repair the leak, and completes the repair, as soon as is practicable but not beyond the time allotted for each of those actions in Table 18B. [N.J.A.C. 7:27-16.18(d)]	None.	None.	None.
4	In determining the concentration of VOC in a gaseous leak from a component, the applicable VOC shall be measured at a distance within 0.4 inches (one centimeter) of the source in accordance with [N.J.A.C. 7:27-16.18(e)]. Components that are insulated, encased, or enclosed may be tested for leaks at a distance within 0.4 inches (one centimeter) of the surface of the insulation, encasement, or enclosure. [N.J.A.C. 7:27-16.18(k)]	None.	None.	None.
5	Develop and implement a leak detection and repair program for any component subject to the provisions of N.J.A.C. 7:27-16.18(c) & (d). The program must include the provisions specified at [N.J.A.C.7:27-16.18(i)1] through [N.J.A.C.7:27-16.18(i)8]. [N.J.A.C. 7:27-16.18(i)]	Other: Comply with regulation.[N.J.A.C. 7:27-16.18(i)].	Other: Keep all records specified at[N.J.A.C. 7:27-16.18(j)1].	Submit a report: As per the approved schedule. Follow the reporting requirements specified at. [N.J.A.C. 7:27-16.18(j)2]
6	The provisions of [N.J.A.C.7:27016.18(i)] shall not apply to a pressure relief device which is connected to an operating flare or to a vapor recovery device, a storage tank valve, a valve that is not externally regulated, or a valve or other component in vacuum service. [N.J.A.C. 7:27-16.18(n)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The provisions of [N.J.A.C.7:27016.18(i)] shall not apply to laboratory equipment, equipment that cannot be tested without immediate danger to the personnel, components that cannot be tested because they are not accessible, pumps that are inherently sealless by design, pumps equipped with dual mechanical seals, leakless design Bellows type valves and equipment enclosed such that all emissions are vented to a controlled emission point. [N.J.A.C. 7:27-16.18(p)]	None.	None.	None.
8	Difficult to monitor components installed prior to May 31, 1995, are exempt from quarterly testing requirements and instead such testing shall be conducted on an annual basis. [N.J.A.C.7:27-16.18(l)]. NOTE: The reduced testing requirements specified above, do not apply to components installed on or after May 31, 1995. [N.J.A.C. 7:27-16.18(m)]	None.	None.	None.
9	No owner or operator shall install or operate a valve, except for a safety pressure relief valve, at the end of a pipe or line containing applicable VOC unless the pipe or line is sealed with a second valve, a blind flange, a plug or a cap. The sealing device may be removed only when a sample is being taken, during actual use in the process, or during maintenance. A fill line that is used to regularly fill containers is considered to be in actual use in the process for the purpose of this provision. [N.J.A.C. 7:27-16.18(o)]	None.	None.	None.
10	The owner or operator of a facility subject to the provisions of this section may use pressure testing with gas or liquid as an alternative method to comply with leak detection requirements in accordance with the specifications at [N.J.A.C. 7:27-16.18(q)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The owner or operator of a facility subject to the provisions of this section is exempt from the requirement to repair any regulated leak within the applicable time limits set forth in this section, so long as no applicable VOC is fed to the source operation of which the component is a part until testing confirms that the leak has successfully been repaired. [N.J.A.C. 7:27-16.18(r)]	None.	None.	None.
12	An affirmative defense to liability to a violation of the requirements in N.J.A.C. 7:27-16.18 regarding time limits for repairs shall be available to any person who can demonstrate that: (1) Failure to comply with those time limits was caused by an inability to obtain the necessary parts through the exercise of due diligence; (2) Keeping the necessary part in stock or otherwise available would have been technically or economically unreasonable; and (3) The parts were obtained and repairs were made as quickly as the exercise of due diligence permitted. [N.J.A.C. 7:27-16.18(s)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1 Emergency Mobile Engines; < 1 MMBtu/hr**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicable requirements at U54 OS Summary, Ref.# 7 through 22 shall apply. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS22 Tanks, non-VOC, vapor pressure < 0.02 psia, IS23 Tanks, non-VOC, <= 10,000 gallons, IS25 Tanks, fuel oil, vapor pressure <0.02 psia, IS26 Tanks, non-HAP VOC, vapor pressure <0.02 psia**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Temperature <= 350 degrees F. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Vapor Pressure <= 0.02 psia @ 70 degrees F or at the liquid's actual temperature, whichever is higher. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, that addresses the three requirements specified under "Insignificant source operation" item 2(iii). [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS24 Tanks, gasoline, < 2,000 gallons**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank capacity < 2000 gals. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of tank design data.[N.J.A.C. 7:27-22.16(o)].	None.
2	Tank contents limited to gasoline. [N.J.A.C. 7:27-22.16(a)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
3	No person shall cause, suffer, allow, or permit the storage of any VOC having a vapor pressure of greater than 13.0 pounds per square inch absolute (672 millimeters of mercury) at the actual temperature existing at or near the liquid surface in any stationary storage tank having a maximum capacity of 1,000 gallons (3,785 liters) or greater unless such tank is equipped with a vapor control system to reduce the rate of VOC emissions to the outdoor atmosphere by at least 90 percent by weight of the uncontrolled VOC emissions from the tank. [N.J.A.C. 7:27-16.2(c)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(a)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS27 Parts washer, unheated, open top, <6 sf, <100 gallons**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall not add solvent to a cold cleaning machine or operate the machine, unless the following requirements are met: i. If the machine is an immersion cold cleaning machine, it shall have: (1) A freeboard ratio of 0.75 or greater; and (2) A visible fill line and a high level liquid mark; ii. The machine shall have: a permanent, conspicuous label placed in a prominent location on the machine setting forth the applicable provisions of the operating requirements found in NJAC 7:27-16.6(j)(2); and iii. The machine shall be equipped with: (1) A tightly fitting working-mode cover that completely covers the machines opening and that shall be kept closed at all times except when parts are being placed into or being removed from the machine or when solvent is being added or removed. For a remote reservoir cold cleaning machine which drains directly into the solvent storage reservoir, a perforated drain with a diameter of not more than six inches shall constitute an acceptable cover. [N.J.A.C. 7:27-16.6(j)1]	None.	None.	None.
2	A person shall operate a cold cleaning machine in accordance with the procedures found in NJAC 7:27-16.6(j)(2). [N.J.A.C. 7:27-16.6(j)2]	None.	None.	None.
3	A person shall not use, in a cold cleaning machine, any solvent that has a vapor pressure of one millimeter of mercury or greater, measured at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)3]	Monitored by formulation data per change of material. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A person who owns or operates a cold cleaning machine shall maintain, for not less than two years after the date of purchase of solvent for use in the machine, the information specified below and shall, upon the request of the Department or its representative, provide the information to the Department: i. The name and address of the person selling the sovent. An invoice, bill of sale, or a certificate that corresponds to a number of sales, if it has the sellers name and address on it, may be used to satisfy this requirement; ii. A list of VOC(s) and their concentration information in the solvent; iii. Information about each VOC listed pursuant to ii above. A Material Safety Data Sheet (MSDS) may be used to satisfy this requirement; iv. The solvents product number assigned by the manufacturer; and v. The vapor pressure of the solvent measured in millimeters of mercury at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
5	Any person shall notify the Department in writing within 15 days of any revision or alteration of a procedure approved pursuant to the provisions of NJAC 7:27-16.6(j). Such written notification shall include a detailed description of the changes in the procedure and the reasons therefor. Such amended procedure shall be subject to review and approval by the Department. [N.J.A.C. 7:27-16.6(n)]	None.	None.	Comply with the requirement: Upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]
6	No halogenated HAP solvents (as defined at 40 CFR 63.461 MACT Subpart T) are to be used in this equipment. [N.J.A.C. 7:27-22.16(a)]	Monitored by formulation data per change of material. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading per change of material. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS28 Polytest Reactor Equipment No.46R-101 & 46R201**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Number of laboratory runs in slurry reaction mode <= 400. 200 runs testing polypropylene catalysts. 200 runs testing polyethylene catalysts. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Number of laboratory runs in bulk reaction mode <= 500 (testing polypropylene catalysts). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Boiler I and Boiler II**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Fuel use is limited to natural gas and No. 2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by invoices / bills of lading per delivery. [N.J.A.C. 7:27-22.16(a)]	None.
2	Maximum Gross Heat Input <= 19 MMBTU/hr (HHV) for each boiler. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by fuel burnaer rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	Particulate Emissions <= 7.6 lb/hr based on gross heat input for each boiler. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	VOC (Total) <= 0.9 tons/yr. Total emissions for two boilers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 16.32 tons/yr. Total emissions for two boilers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 13.71 tons/yr. Total emissions for two boilers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 1.92 tons/yr. Total emissions for two boilers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 1.24 tons/yr. Total emissions for two boilers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 1.24 tons/yr. Total emissions for two boilers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The permittee shall adjust the combustion process in accordance with the requirements of N.J.A.C. 7:27-19. The permittee shall: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly 4. Minimize total emissions of NOx and CO consistent with the manufacturer's specifications; and 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made. [N.J.A.C. 7:27-19.16(a)]	Monitored by periodic emission monitoring annually. The permittee shall: Convert the emission values of the NOx, CO and O2 concentrations measured to pounds per million BTU (lb/MM BTU) according to the following formula: lb/MM BTU = ppmvd x MW x F dry factor x O2 correction factor / 387,000,000 Where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO, MW is the Molecular Weight for: NOx = 46 lb/lb-mole; CO = 28 lb/lb-mole, F dry factor for: Natural gas = 8,710 dscf/MM BTU and Residual or fuel oil = 9,190 dscf/MM BTU O2 correction factor: (20.9%) / (20.9% - O2 measured) O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually Records shall contain the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MM BTU); and 7. The type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually within 45 days of the adjustment. The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm. The report shall contain the following: 1. The concentrations of NOx and CO in the effluent stream in ppmvd, and O2 in percent dry basis, measured before and after the adjustment of the combustion process; 2. The converted emission values in lb/MM BTU for the measurements taken before and after the adjustment of the combustion process; 3. A description of any corrective actions taken as a part of the combustion adjustment; and 4. The type and amount of fuel used over the 12 months prior to the annual adjustment. N.J.A.C. 7:27-19.16(c) and. [N.J.A.C. 7:27-19.16(d)]
11	An exceedance of an emission limit that occurs during an adjustment of the combustion process under N.J.A.C. 7:27-19.16(a) is not a violation of N.J.A.C. 7:27-19 if it occurs as a result of the adjustment. After the combustion adjustment has been completed, the maximum emission rate of any contaminant shall not exceed the maximum allowable emission rate applicable under N.J.A.C. 7:27-19 or under an operating permit issued pursuant to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-19.16(f)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	The owner or operator shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitor and maintain the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted.[N.J.A.C. 7:27-19.16(o)].	None.
13	If you have an existing boiler or process heater, you must comply with the requirements of 40 CFR 63 Subpart DDDDD no later than January 31, 2016. [40 CFR 63.7495(b)] These standards apply at all times the affected unit is operating, except during periods of startup and shutdown. [40 CFR 63.7500(f)]	None.	None.	Comply with rule/regulation: As per the approved schedule - no later than January 31, 2016. [40 CFR 63.7495(b)]
14	If you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013. [40 CFR 63.7545(b)]	None.	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit notification: As per the approved schedule - not later than 120 days after January 31, 2013. The Initial Notification must include the information specified at 40 CFR 63.9(b)(2). [40 CFR 63.7545(b)]
15	At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.7500(a)(3)]	Other: Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.[40 CFR 63.7500(a)(3)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	In units designed to burn light liquid fuel, filterable PM emitted must not exceed 7.9E-03 lb per MMBtu of heat input. [40 CFR 63.7500(a)(1)]	Other: Monitored by stack test procedures specified at [40 CFR 63.7520] and [40 CFR 63 Subpart DDDDD Table 5, number 1]. Establish operating limits as specified at [40 CFR 63 Subpart DDDDD Table 7, numbers 4 and 5]. The initial stack test must be completed no later than 180 days after January 31, 2016. [40 CFR 63.7510(e)]. Subsequent performance tests must be performed on an annual basis, except as specified at 40 CFR 63.7515(b) and (c). If your affected boiler or process heater is in the unit designed to burn light liquid subcategory and you combust ultra low sulfur liquid fuel, you do not need to conduct further performance tests if the pollutants measured during the initial compliance performance tests meet the emission limits in Tables 1 or 2 of this subpart providing you demonstrate ongoing compliance with the emissions limits by monitoring and recording the type of fuel combusted on a monthly basis.[40 CFR 63.7515(h)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	In units designed to burn light liquid fuel, CO emissions must not exceed 130 ppm by volume on a dry basis corrected to 3 percent oxygen. [40 CFR 63.7500(a)(1)]	Other: Monitored by stack test procedures specified at [40 CFR 63.7520] and [40 CFR 63 Subpart DDDDD Table 5 number 5]. Establish operating limits as specified at [40 CFR 63 Subpart DDDDD Table 7 numbers 4 and 5]. The initial stack test must be completed no later than 180 days after January 31, 2016. [40 CFR 63.7510(e)]. Subsequent performance tests must be performed on an annual basis, except as specified at 40 CFR 63.7515(b) and (c). Install, operate and maintain an oxygen analyzer system, or install, certify, operate and maintain continuous emission monitoring systems for CO and oxygen according to the procedures at [40 CFR 63.7525 (a)(1)] through [40 CFR 63.7525(a)(7)]. If your affected boiler or process heater is in the unit designed to burn light liquid subcategory and you combust ultra low sulfur liquid fuel, you do not need to conduct further performance tests if the pollutants measured during the initial compliance performance tests meet the emission limits in Tables 1 or 2 of this subpart providing you demonstrate ongoing compliance with the emissions limits by monitoring and recording the type of fuel combusted on a monthly basis.[40 CFR 63.7515(h)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater as specified at 40 CFR 63.7540(a)(10)(i) through (vi). [40 CFR 63.7540(a)(10)]. If your boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, you must conduct a tune-up of the boiler or process heater every 5 years. You may delay the burner inspection specified at 40 CFR 63.7540 (a)(10)(i) per [40 CFR 63.7540(a)(12)]	Other: See procedures specified at 40 CFR 63.7540(a)(10)(i) through (vi).[40 CFR 63.7540(a)(10)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at 40 CFR 63.7560. Record the information specified at 40 CFR 63.7540(a)(10)(vi) (A) through (C).[40 CFR 63.7540(a)(10)(vi)].	You must keep, and have readily available upon request by the Department: Annually a report containing the information specified at 40 CFR 63.7540(a)(10)(vi) (A) through (C). [40 CFR63.7540(a)(10)(vi)]. Complete initial tune-up no later than January 31, 2016. [40 CFR 63.7495(b)]. Submit reports as per the approved schedule specified at. [40 CFR 63.7550]
19	An existing boiler or process heater must have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the requirements specified in [40 CFR 63 Subpart DDDDD Table 3 number 4]. [40 CFR 63.7500(a)(1)]	Other: Follow requirements at [40 CFR 63 Subpart DDDDD Table 3 number 4].[40 CFR 63.7500(a)(1)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]
20	An existing or new boiler or process heater subject to emission limits in 40 CFR 63 Subpart DDDDD Table 2 must start-up and shut-down as specified at [40 CFR 63 Subpart DDDDD Table 3 numbers 5 and 6]. [40 CFR 63.7500(a)(1)]	Other: Follow requirements at [40 CFR 63 Subpart DDDDD Table 3 numbers 5 and 6].[40 CFR 63.7500(a)(1)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]
21	For boilers and process heaters that demonstrate compliance with a performance test, maintain the operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test. [40 CFR 63 Subpart DDDDD Table 4 number 9] and [40 CFR 63.7500(a)(2)]	Other: Monitored as specified at [40 CFR 63 Subpart DDDDD Table 8 number 10][40 CFR 63].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	For boilers and process heaters subject to a CO emission limit that demonstrate compliance with an O2 analyzer system as specified in 40 CFR 63.7525(a), maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the most recent CO performance test, as specified in Table 8. This requirement does not apply to units that install an oxygen trim system since these units will set the trim system to the level specified in 40 CFR 63.7525(a). [40 CFR 63 Subpart DDDDD Table 4 number 8] and [40 CFR 63.7500(a)(2)]	Other: Monitored as specified at [40 CFR 63 Subpart DDDDD Table 8 number 9][40 CFR 63].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]
23	The permittee shall comply with the General Provisions specified in Table 10 of Subpart DDDDD. [40 CFR 63.7565]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Boiler I and Boiler II**
Operating Scenario: **OS1 Natural gas is used as fuel in H-121, OS2 Natural gas is used as fuel in H-131**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emission except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a) & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Natural Gas Usage <= 163 MMft^3 per any 12 consecutive months. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The cubic feet usage per any consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. The permitee shall select the time period of accounting, such as fiscal month, calendar month or production month. Once selected, the period must not be changed without prior approval from the Department. [N.J.A.C.7:27-22.16(o)]. The permittee shall record and maintain records of the amount of each fuel combusted during each calendar month. All records shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. [40 CFR 60.48c(g)(2)] and. [40 CFR 60.48c(h)(i)]	None.
3	VOC (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1.86 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 1.56 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Boiler I and Boiler II**
Operating Scenario: **OS3 Fuel oil is used as fuel in H-121, OS4 Fuel oil is used as fuel in H-131**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emission except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a) & [N.J.A.C. 7:27- 3.2(c)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standards, the permittee shall conduct visual inspections during daylight hours. Visual inspection shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Manually or electronically log and retain records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was resolved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	No. 2 Fuel Oil Usage <= 540,000 gallons per any 12 consecutive months for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The gallons per any consecutive 12-month period shall be calculated by the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. The permittee shall select the time period of accounting, such as fiscal month, calendar month or production month. Once selected, the period must not be changed without prior approval from the Department. [N.J.A.C.7:27-22.16(o)]. The permittee shall record and maintain records of the amount of each fuel combusted during each calendar month. All records shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. [40 CFR 60.48c(g)(2)] and. [40 CFR 60.48c(h)(i)]	None.
5	NOx (Total) <= 2.68 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.67 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 0.95 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.27 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.27 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Sulfur Content in Fuel <= 0.5 weight % for an affected facility that combusts oil. [40 CFR 60.42c(d)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	Other: Keep fuel supplier certifications. Fuel supplier certification shall include the following information: The name of the oil supplier; A statement by the supplier that the oil complies with the specifications under the defn.of distillate oil in 40 CFR 60.41c; and The sulfur content or maximum sulfur content of the oil.[40 CFR 60.48c(f)(1)].	Submit a report: As per the approved schedule. (j) Submit semi-annual reports to the Administrator. All reports shall be postmarked by the 30th day following the end of the reporting period. [40 CFR 60.48c(j)]. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. [40 CFR 60.48c(e)(11)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 25000 gallon above ground storage tank which can store #2 fuel oil and 32% HCl**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total HAPs <= 1.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Hydrogen chloride <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen chloride: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep emission calculations.[N.J.A.C. 7:27-22.16(o)].	None.
3	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Titanium tetrachloride: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep emission calculations.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep emission calculations.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 25000 gallon above ground storage tank which can store #2 fuel oil and 32% HCl**
Operating Scenario: **OS1 Storage of 32% Hydrochloric acid**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank contents limited to 32% hydrochloric acid. [N.J.A.C. 7:27-22.16(a)]	Other: MSDS or certificate of analysis per delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery tank contents and the date the tank was filled. [N.J.A.C. 7:27-22.16(o)]	None.
2	Total Material Transferred <= 2.55 MMgal/yr. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and the preceeding consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 25000 gallon above ground storage tank which can store #2 fuel oil and 32% HCl**
Operating Scenario: **OS2 Storage of fuel oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tanks contents limited to #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	Other: MSDS or Invoices / Bills of lading per delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery tank contents and the date the tank was filled. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel: No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in Tables 1A and 1B at N.J.A.C. 7:27-9.2. Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in 1B. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Material Transferred <= 2.7 MMgal/yr. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and the preceeding consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4 25000 gallon above ground storage tank for emergency containment of Titanium Tetrachloride/mineral oil and storage of fuel oil #2.**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The external surface of the storage tank must be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
3	VOC (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep emission calculations.[N.J.A.C. 7:27-22.16(o)].	None.
4	HAPs (Total) <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Titanium tetrachloride: Monitored by calculations annually. [None]	Other: Keep emission calculations.[N.J.A.C. 7:27-22.16(o)].	None.
6	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into any stationary storage tank having a maximum capacity of 2,000 gallons (7,570 liters) or greater and having a total calculated annual emission rate over 1,000 pounds of applicable VOC as determined pursuant to [N.J.A.C.7:27-16.4(d)] unless the storage tank is equipped with and operating one of the following control apparatus: A vapor balance system with: i. All atmospheric vents positively closed during transfer; ii. A conservation vent adjusted to remain closed during transfer; or iii. A hole of 1/4 inch (6.4 millimeters) or less in diameter in the cap on the atmospheric vent. [N.J.A.C. 7:27-16.4(c)]	Monitored by calculations annually. [N.J.A.C. 7:27-22(16)o]	Other: Keep calculations.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4 25000 gallon above ground storage tank for emergency containment of Titanium Tetrachloride/mineral oil and storage of fuel oil #2.**
Operating Scenario: **OS1 Pumping and storage of Titanium Tetrachloride/mineral oil.**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The tanks contents are limited to titanium tetrachloride and mineral oil. [N.J.A.C. 7:27-22.16(a)]	Other: MSDS or Invoices / Bills of lading per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Record tank contents and the date the tank was filled.[N.J.A.C. 7:27-22.16(o)].	None.
2	Total Throughput <= 20,000 gal/yr of titanium tetrachloride and mineral oil. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by liquid level indicator continuously. The permittee shall monitor the volume of the storage tank each time the tank is filled. [N.J.A.C. 7:27-22.16(o)]	Other: The permittee shall record the total number of gallons pumped into the tank, each time the tank is filled, and record the total throughput for the calendar year.[N.J.A.C. 7:27-22.16(o)].	None.
3	The storage tank must have sufficient quantity of mineral oil prior to pumping titanium tetrachloride in the tank to provide a vapor blanket for titanium tetrachloride. [N.J.A.C. 7:27-22.16(a)]	Other: Calculate the relative amount of each component in the tank.[N.J.A.C. 7:27-22.16(o)].	Other: The permittee shall record the relative quantity (gallons) of each component (mineral oil and titanium tetrachloride) in the tank, before and after each receipt.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4 25000 gallon above ground storage tank for emergency containment of Titanium Tetrachloride/mineral oil and storage of fuel oil #2.**
Operating Scenario: **OS2 Storage of Fuel Oil #2**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tanks contents limited to #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	Other: MSDS or Invoices / Bills of lading per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Record tank contents and the date the tank was filled.[N.J.A.C. 7:27-22.16(o)].	None.
2	Sulfur Content in Fuel: No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in Tables 1A and 1B at N.J.A.C. 7:27-9.2. Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in 1B. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Throughput <= 20,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and the preceeding consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U9 Storage of diisobutyl phthalate in above ground tank**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tanks contents limited to diisobutyl phthalate. [N.J.A.C. 7:27-22.16(a)]	Other: Confirm by MSDS or Invoices / Bills of lading.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery the tank contents and the date the tank was filled. [N.J.A.C. 7:27-22.16(o)]	None.
2	Total Throughput <= 7.9 MMgal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by Invoices / Bills of lading per delivery.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and the preceeding consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total) <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U19 Recirculation of liquid phthalate through molecular sieve**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	VOC (Total) <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	HAPs (Total) <= 1.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Dibutylphthalate <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.[N.J.A.C. 7:27-16.16(g)1ii].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions. [N.J.A.C. 7:27-16.16(g)1ii]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U19 Recirculation of liquid phthalate through molecular sieve**

Operating Scenario: **OS1 Recirculation of liquid phthalate through molecular sieve, OS2 Recirculation of liquid phthalate through molecular sieve, OS3 Recirculation of liquid phthalate through molecular sieve, OS4 Recirculation of liquid phthalate through molecular sieve**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Titanium tetrachloride <= 0.002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Dibutylphthalate <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Metering drum for organic additive**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	VOC (Total) <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	HAPs (Total) <= 1.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Dibutylphthalate <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.[N.J.A.C. 7:27-16.16(g)1ii].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions. [N.J.A.C. 7:27-16.16(g)1ii]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Metering drum for organic additive**
Operating Scenario: **OS1 Metering drum for organic additive**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Titanium tetrachloride <= 0.002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Dibutylphthalate <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U26 Wastewater Neutralization & Collection Sumps (WWNP System)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.28 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	HAPs (Total) <= 2.28 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Ethyl chloride <= 1.28 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	All other HAPs are emitted at levels below their reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Hexane (n-) <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U26 Wastewater Neutralization & Collection Sumps (WWNP System)**
Operating Scenario: **OS1 Wastewater neutralization and collection pits**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that under worst conditions that maximize the VOC emissions after any control, the VOC emission of the source operation is in compliance with Section N.J.A.C. 7:27-16.[N.J.A.C. 7:27-16.16(g)1ii].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall maintain copies of all calculations used to show compliance with the VOC emission rates. The permittee shall maintains process record sufficient to demonstrate whether the VOC emission rate of the source operation from the actual operations does not exceed the VOC emission rate under worst case operating conditions. The permittee shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department of the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] and. [N.J.A.C. 7:27-16.16(g)1ii]	None.
2	Ethyl chloride <= 0.292 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.52 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	The permittee shall keep all openings of the neutralization pits covered so that no more than 25 percent of the liquid surface area is exposed to the atmosphere at any time. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hexane (n-) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U52 351-BHP Diesel Engine**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 1.56 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
5	Generator fuel limited to # 2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, including other fire protection equipment, as recommended in writing by the fire pump or fire protection system manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu, or 4. To provide power to pump water for fire suppression or protection, or in case of flood, even if there is no power outage and primary source of mechanical energy has not failed. [N.J.A.C. 7:27-22.16(a)] and [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
8	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Maximum Gross Heat Input <= 2.6 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
10	VOC (Total) <= 0.004 tons/yr. Annual emission limit based on 100 hr/yr of testing and maintenance operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	NOx (Total) <= 0.11 tons/yr. Annual emission limit based on 100 hr/yr of testing and maintenance operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	CO <= 0.02 tons/yr. Annual emission limit based on 100 hr/yr of testing and maintenance operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.003 tons/yr. Annual emission limit based on 100 hr/yr of testing and maintenance operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 0.003 tons/yr. Annual emission limit based on 100 hr/yr of testing and maintenance operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines. No further requirements apply for such engines under 40 CFR 63. [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.
16	The owner or operator of a fire pump engine with a displacement of less than 30 liters per cylinder must comply with the emissions standards in table 4 to NSPS IIII for the same model year and nameplate engine power as follows: NMHC + NOx <= 4.0 g/kW-hr, and PM <= 0.2 g/kW-hr. [40 CFR 60.4205(c)]	None.	Other: The owner or operator must keep documentation demonstrating compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	None.	None.
18	The CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII that use diesel fuel must use diesel fuel that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
19	Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions and change only those emission-related settings that are permitted by the manufacturer. [40 CFR 60.4211(a)(1)] and [40 CFR 60.4211(a)(2)]	None.	Other: Keep the manufacturer's emission-related written instructions.[N.J.A.C. 7:27-22.16(o)].	None.
20	The owner or operator of a fire pump engine that was manufactured starting with or after the model year that applies to the engine power rating and a rated speed in table 3 to NSPS IIII and must comply with the emission standards in 40 CFR 60.4205(c), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(c), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]	None.	Other: Engine manufacturers must add a permanent label stating that the engine is for stationary emergency use only and meets all the emission standards for emergency engines in 40 CFR 60.4202 but does not meet all the emission standards for non-emergency engines in 40 CFR 60.4201. The label must be added according to the labeling requirements specified in 40 CFR 1039.135(b). Engine manufacturers must specify in the owner's manual that operation of emergency engines is limited to emergency operations and required maintenance and testing.[40 CFR 60.4210(f)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Emergency stationary internal combustion engines may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. [40 CFR 60.4211(f)(2i)]	Monitored by hour/time monitor continuously. If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR 60.4214(b)]	None.
22	See Table 8 of 40 CFR 60 Subpart IIII for applicable General Provisions. [40 CFR 60.4218]			

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Solvent/water collection tank**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permitee shall paint and maintain the external surface of the tank white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	The owner or operator shall maintain on-site, records that specify each VOC stored and the vapor pressure of each VOC at standard conditions; [N.J.A.C. 7:27-16.2(s)1]	Other: Monitor tank contents.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material . [N.J.A.C. 7:27-22.16(o)]	None.
3	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7570 liters) or greater unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	As solvent is not transfered into E8 from delivery vessels, the requirements of [N.J.A.C.7:29-16.4(c)] do not apply. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep all calculations.[N.J.A.C. 7:27-22.16(o)].	None.
6	HAPs (Total) <= 2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep all calculations.[N.J.A.C. 7:27-22.16(o)].	None.
7	Hexane (n-) <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Hexane (n-): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep all calculations.[N.J.A.C. 7:27-22.16(o)].	None.
8	Toluene <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Toluene: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Other: Keep all calculations.[N.J.A.C. 7:27-22.16(o)].	None.
9	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Solvent/water collection tank**
Operating Scenario: **OS1 Storage of solvent/water**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank contents are limited to used solvent hexane having a vapor pressure of <= 2.5 psia @ 70 degrees F. [N.J.A.C. 7:27-22.16(a)]	Other: At the time of filling, confirm by MSDS or Invoices/Bills of Lading.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery the tank contents and the date the tank was filled. [N.J.A.C. 7:27-22.16(o)]	None.
2	The owner or operator shall maintain on-site, records that specify each VOC stored and the vapor pressure of each VOC at standard conditions; [N.J.A.C. 7:27-16.2(s)1]	Other: Monitor VOC and VOC vapor pressure at standard conditions.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material . [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Throughput <= 295,000 gal/yr of hexane. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Solvent/water collection tank**
Operating Scenario: **OS2 Storage of solvent**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank contents are limited to used solvent toluene (HAP VOC) and water having a vapor pressure of 0.43 psia @ 70 degrees F. [N.J.A.C. 7:27-22.16(a)]	Other: At the time of filling, confirm by MSDS or Invoices/Bills of Lading.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery the tank contents and the date the tank was filled. [N.J.A.C. 7:27-22.16(o)]	None.
2	The owner or operator shall maintain on-site, records that specify each VOC stored and the vapor pressure of each VOC at standard conditions; [N.J.A.C. 7:27-16.2(s)1]	Other: Monitor VOC and VOC vapor pressure at standard conditions.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material . [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Throughput <= 11.751 MMgal/yr of toluene and water. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U54 175 HP Emergency Diesel Engine**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.119 tons/yr annual emission limit based on 500 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.5 tons/yr annual emission limit based on 500 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.323 tons/yr annual emission limit based on 500 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.1 tons/yr annual emission limit based on 500 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.105 tons/yr annual emission limit based on 500 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.105 tons/yr annual emission limit based on 500 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	No person shall cause, suffer, allow or permit smoke the shade or appearance of which is darker than number 1 on the Ringelmann smoke chart or greater than 20 percent opacity, exclusive of visible condensed water vapor, to be emitted into the outdoor air from the combustion of fuel in any stationary internal combustion engine or any stationary turbine engine for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
8	Sulfur Content in Fuel <= 500 ppmw effective from 7/1/14 to 6/30/16. Sulfur content in Fuel <= 15 ppm from 7/1/16 onwards. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	An emergency generator shall be located at the facility and produce electrical power exclusively for use at the facility. This emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at no required frequency. The owner or operator shall maintain on site and record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	An emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site: http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
11	An existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, must comply with the applicable emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ no later than May 3, 2013. [40 CFR 63.6595(a)(1)]	None.	None.	None.
12	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions, or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	None.	None.	None.
14	The owner/operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	None.	None.	None.
15	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: Monitor each start-up.[N.J.A.C. 7:27-22.16(o)].	Other: Keep start-up records.[N.J.A.C. 7:27-25.16(o)].	None.
16	At all times the owner or operate must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	Other: The owner/operator must follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse maintenance plan developed to maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 63.6640(a)].	Other: Record each deviation [40 CFR 63.6640(b)] and[40 CFR 63.6655].	Submit a report: Annually. The owner/operator must report each instance in which the RICE did not meet each applicable emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Follow the reporting procedures specified at 40 CFR 63.6650(h). [40 CFR 63.6640(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall: a) Change oil and filter every 500 hours of operation or annually, whichever comes first, b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.[40 CFR 63 Subpart ZZZZ Table 2c 1]. [40 CFR 63.6602]	None.	Other: The permittee must keep records of all oil/oil filter changes, and air cleaner, hose and belt replacements. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and[40 CFR 63.6655].	Submit a report: Annually. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Follow the reporting procedures specified at 40 CFR 63.6650(h). [40 CFR 63.6640(b)]
18	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 has the option of utilizing an oil analysis program to extend the specified oil change requirements in Table 2 c to 40 CFR 63 Subpart ZZZZ. The oil analysis program must operate as specified in [40 CFR 63.6625(i)]	Other: Monitored by analysis of the oil as specified in[40 CFR 63.6625(i)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. [40 CFR 63.6625(i)]	None.
19	The owner/operator must demonstrate continuous compliance with each applicable emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ according to methods specified in Table 6 to 40 CFR 63 subpart ZZZZ. [40 CFR 63.6640(a)]	Other: The owner/operator must follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse maintenance plan developed to maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 63.6640(a)].	Other: Record each deviation [40 CFR 63.6640(b) and[40 CFR 63.6655].	Submit a report: Annually. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Follow the reporting procedures specified at 40 CFR 63.6650(h). [40 CFR 63.6640(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Emergency generators (EGs) must be operated in accordance with the following: There is no time limit on the use of EGs in emergency situations. EGs may be operated for any of the following, for a maximum of 100 hours per calendar year: For maintenance checks and readiness testing as specified at 40 CFR 63.6640(f)(2)(i). For emergency demand response periods as specified 40 CFR 63.6640(f)(2)(ii). For periods of voltage or frequency deviation as specified at 40 CFR 63.6640(f)(2)(iii). For up to 50 hours per calendar year in non-emergency situations as specified at 40 CFR 63.6640(f)(3). 40 CFR 63.6640(f)(1) through [40 CFR 63.6640(f)(3)]	Other: Monitored using a non-resettable hour meter.[40 CFR 63.6625(f)].	Other: Keep records of the hours of operation recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR 63.6640(f)(2)(ii) or (iii), the permittee must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.[40 CFR 63.6655(f)].	Submit a report: Annually. Follow the reporting procedures specified at 40 CFR 63.6650(h). [40 CFR 63.6650(h)]
21	If you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in 40 CFR63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 80.510 (b) for nonroad diesel fuel. Existing diesel fuel obtained prior to January 1, 2015, may be used until depleted. [40 CFR 63.6604(b)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Annually. Follow the reporting procedures specified at. [40 CFR 63.6650(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The permittee shall comply with the General Provisions in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	Submit a report: Annually. The owner/operator must report each instance in which the RICE did not meet the requirements in Table 8 to 40 CFR 63 Subpart ZZZZ. Follow the reporting procedures specified at 40 CFR 63.6650(h). [40 CFR 63.6640(e)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U54 175 HP Emergency Diesel Engine**
Operating Scenario: **OS1 Diesel pump for emergency power**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 1.36 MMBTU/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Particulate Emissions <= 0.82 lb/hr based on a gross heat input of 1.36 MMBTU/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	NOx (Total) <= 6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 1.292 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 0.394 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.422 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.422 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 0.476 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U55 Vessel for blending of product(s)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Raw materials limited to particulate emitting substances that are not Hazardous Air Pollutants (HAPs) as defined in 40 CFR 63.1(a)(2) [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records and formulation data that identify ingredients and quantity used once per shift during operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Waste Processing Rate: Minimum water pressure limit >= 20 psig. [N.J.A.C. 7:27-22.16(a)]	Waste Processing Rate: Monitored by pressure indicator continuously during operation. [N.J.A.C. 7:27-22.16(o)]	Waste Processing Rate: Recordkeeping by manual logging of parameter each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	Pressure Drop Across the Scrubber >= 4.7 and Pressure Drop Across the Scrubber <= 6.4 inches w.c. NOTE: i) The facility will comply with this requirement within one year of BOP130001 being issued. ii) As an alternative, the facility may elect to comply with a scrubber medium flowrate condition within one year of BOP130001 being issued. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously during operation. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	HAPs (Total) <= 1.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hydrogen chloride <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U55 Vessel for blending of product(s)**
Operating Scenario: **OS1 Product blending**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: The permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hydrogen chloride <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U56 Temporary Industrial Site Recovery Act project**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	There shall be no visible emissions from the stack, exclusive of visible condensed water vapor. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standards, the permittee shall conduct visual inspections during daylight hours. Visual inspection shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter each month during operation. Manually or electronically log and retain records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was resolved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: The permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Maximum flowrate of air from the bioreactor. Flowrate <= 140 SCFM. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum groundwater flowrate to bioreactor. Flowrate <= 25 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage each week during operation. Flowrate shall be calculated by the following equation: Flowrate [gal/min] = weekly flowrate [gal/week] / minutes of operation per week [min/week]. [N.J.A.C. 7:27-22.16(o)]	None.
5	Influent groundwater sampling and analysis shall be conducted in accordance with the procedures for volatile organic compound (VOC) sampling outlined in the NJ DEP Discharge to Groundwater (DGW) permit issued for the operation of the groundwater treatment system. Influent groundwater samples shall be taken and analyzed on a monthly basis. [N.J.A.C. 7:27-22.16(a)]	Other: Sample and analyze groundwater monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records of monthly sample analyses.[N.J.A.C. 7:27-22.16(o)].	Submit notification: Upon occurrence of event. Permitte shall report any non-compliance in writing to the Regional Enforcement Office within three working days of any event. [N.J.A.C. 7:27-22.16(o)]
6	VOC (Total) <= 1.23 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	HAPs (Total) <= 0.407 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Benzene <= 0.276 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum VOC (equivalent to methane) concentration at the stack. VOC (Total) <= 500 Parts per Million. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored monthly using an instrument in accordance with the manufacturer's instructions.[N.J.A.C. 7:27-22.16(o)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
12	VOC (Total) <= 230 Parts per Million maximum influent concentration. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by monthly sampling and analysis.[N.J.A.C. 7:27-22.16(o)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Benzene <= 50 Parts per Million maximum influent concentration. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by monthly sampling and analysis.[N.J.A.C. 7:27-22.16(o)].	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
14	Trichloroethane (1,1,2) <= 5 Parts per Million maximum influent concentration. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by monthly sampling and analysis.[N.J.A.C. 7:27-22.16(o)].	Trichloroethane (1,1,2): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
15	Chloroform <= 2 Parts per Million maximum influent concentration. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by monthly sampling and analysis.[N.J.A.C. 7:27-22.16(o)].	Chloroform: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
16	Methylene chloride (Dichloromethane) <= 3 Parts per Million maximum influent concentration. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by monthly sampling and analysis.[N.J.A.C. 7:27-22.16(o)].	Methylene chloride (Dichloromethane): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
17	Trichloroethylene <= 1 Parts per Million maximum influent concentration. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by monthly sampling and analysis.[N.J.A.C. 7:27-22.16(o)].	Trichloroethylene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U56 Temporary Industrial Site Recovery Act project**
Operating Scenario: **OS1 Removing VOC's from groundwater**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.279 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored monthly using an instrument in accordance with the manufacturer's instructions.[N.J.A.C. 7:27-22.16(o)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	HAPs (Total) <= 0.092 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzene <= 0.063 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U73 C-DONOR TANK**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum annual feed or processing rate <= 134 ton/yr based on 1372 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monthly production records.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(e)]	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	TSP <= 0.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 1.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total) <= 1.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hexane (n-) <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Phthalic anhydride <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U73 C-DONOR TANK**
Operating Scenario: **OS1 Anhydride feed**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates tha t, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emissio rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
3	VOC (Total) <= 0.342 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.116 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.116 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs <= 0.346 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hexane (n-) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Titanium tetrachloride <= 0.002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Phthalic anhydride <= 0.114 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U102 Bldg. 6 Packaging System**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC and HAP raw materials limited to hexane. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	VOC (Total) <= 1.34 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 0.442 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 0.442 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total) <= 1.35 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Hexane (n-) <= 1.34 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Titanium tetrachloride <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U102 Bldg. 6 Packaging System**
Operating Scenario: **OS1 Surge Bin - Product A, OS2 Surge Bin - Product B, OS3 Surge Bin - Product A, OS4 Surge Bin - Product B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: The permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	Maximum raw material processed <= 261.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall keep records of the total tons of raw material processed for the month and the total tons of raw material processed for the consecutive twelve month period. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.167 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.11 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.11 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.167 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U102 Bldg. 6 Packaging System**

Operating Scenario: **OS5 D-131B Hold Bin receives product of D-109 Surge Bin prior to discharging to packaging., OS6 D-110 Expansion Tank serves both D-109A and D-109 Surge Bins simultaneously**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: The permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	Maximum raw material processed <= 261.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall keep records of the total tons of raw material processed for the month and the total tons of raw material processed for the consecutive twelve month period. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.334 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.334 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	STACK TESTING SUMMARY The permittee shall conduct a stack test at least 18 months prior to the expiration of the initial or renewed operating permit using an approved protocol to demonstrate compliance with emission limits for VOC (Total) as specified in the compliance plan for Process 3. Process 3 comprises OS5, OS9, OS11, OS14, OS18, OS20, OS25, OS28, OS32, OS35, OS38, OS42, OS46, OS52, OS56, OS60, OS65, OS69, OS73, OS76, OS78, OS80, OS81, OS82, OS83, OS84, OS85, OS86, OS87 and OS88. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total): Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent by volume of the VOC from each source operation as specified in [N.J.A.C. 7:27-16.16(c)], [N.J.A.C. 7:27-16.16(d)] & [N.J.A.C. 7:27-16.16(f)3]	Other: See Recordkeeping Requirement.[N.J.A.C. 7:27-16.16(g)].	Other: Recordkeeping by manual logging of parameters listed below: Any person responsible for a source operation subject to 7:27-16.16(c) & (d) shall maintain the records for each source operation. For each different kind of batch or continuous process for which the source operation is used: Record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate; also record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process.[N.J.A.C. 7:27-16.16(g)1].	None.
4	Any person subject to any record keeping provision of NJAC 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
5	Maintain records of each operating scenario. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain operating scenario procedures and production records for each operating scenario on site for at least 5 years. The records will be made available upon request of the Department.[N.J.A.C. 7:27-22.16(o)].	None.
6	The master list of all raw materials/air contaminants shall be kept on site and shall be updated annually and retained for the life of the permit [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The permittee shall adhere to the operating scenerios contained in the emission unit inventory for U208. All source emissions shall be directed to the control devices as listed in the emission unit inventory for U208. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Condenser CD4: Minimum heat removal capacity >= 192,600 BTU/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations upon request of the Department. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
9	Condenser CD4: Contaminant Side Outlet Temperature <= 120 degrees F. [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. If the Contaminant Side Outlet Temperature exceeds 120 degrees F, the facility shall monitor the cooling medium outlet temperature. Monitored by instantaneous reading every 30 minutes while the contaminant side outlet temperature is exceeded. If the cooling medium outlet temperature is <=110 degrees F, the facility remains in compliance with the applicable requirement. This alternative monitoring shall be utilized for a total of no more than 2 percent of the permitted hours of operation (175 hours per calendar year). [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. During times when the contaminant side outlet temperature exceeds 120 degrees F, the facility shall record the cooling medium outlet temperature by manual logging of parameter or storing data in a computer data system every 30 minutes. The facility shall also record the reason for the exceedance and the resolution. [N.J.A.C. 7:27-22.16(o)]	None.
10	Condenser CD5: Minimum heat removal capacity >=16,000 BTU/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations upon request of the Department. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Condenser CD5: Contaminant Side Outlet Temperature <= 120 degrees F. [N.J.A.C. 7:27-22.16(e)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. If the Contaminant Side Outlet Temperature exceeds 120 degrees F, the facility shall monitor the cooling medium outlet temperature. Monitored by instantaneous reading every 30 minutes while the contaminant side outlet temperature is exceeded. If the cooling medium outlet temperature is <=110 degrees F, the facility remains in compliance with the applicable requirement. This alternative monitoring shall be utilized for a total of no more than 2 percent of the permitted hours of operation (175 hours per calendar year). [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. During times when the contaminant side outlet temperature exceeds 120 degrees F, the facility shall record the cooling medium outlet temperature by manual logging of parameter or storing data in a computer data system every 30 minutes. The facility shall also record the reason for the exceedance and the resolution. [N.J.A.C. 7:27-22.16(o)]	None.
12	Condenser CD6: Minimum heat removal capacity >=50,000 BTU/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations upon request of the Department. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
13	Condenser CD6: Contaminant Side Outlet Temperature <= 120 degrees F. [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage each half hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
14	Scrubber CD20801: Scrubbing Medium Flow Rate >= 3.5 and Scrubbing Medium Flow Rate <= 50 gal/min. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. In the event, the flow rate measurement drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15 minute block average. [N.J.A.C. 7:27-22.16(o)]	None.
15	Scrubber CD20801: Scrubbing solution: Titanium tetrachloride. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Scrubber CD20802: Scrubbing Medium Flow Rate >= 10 and Scrubbing Medium Flow Rate <= 100 gal/min. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
17	Condenser CD20803: Contaminant Side Outlet Temperature <= 120 degrees F. [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. If the Contaminant Side Outlet Temperature exceeds 120 degrees F, the facility shall monitor the cooling medium outlet temperature. Monitored by instantaneous reading every 30 minutes while the contaminant side outlet temperature is exceeded. If the cooling medium outlet temperature is <=110 degrees F, the facility remains in compliance with the applicable requirement. This alternative monitoring shall be utilized for a total of no more than 2 percent of the permitted hours of operation (175 hours per calendar year). [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. During times when the contaminant side outlet temperature exceeds 120 degrees F, the facility shall record the cooling medium outlet temperature by manual logging of parameter or storing data in a computer data system every 30 minutes. The facility shall also record the reason for the exceedance and the resolution. [N.J.A.C. 7:27-22.16(o)]	None.
18	VOC (Total) <= 41.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
19	TSP <= 1.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
20	PM-10 (Total) <= 1.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
21	CO <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	HAPs (Total) <= 42 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
23	Ethyl chloride <= 6.57 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	Ethyl chloride: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
24	Hexane (n-) <= 31.33 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	Hexane (n-): Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
25	Hydrogen chloride <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	Hydrogen chloride: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
26	Titanium tetrachloride <= 0.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	Titanium tetrachloride: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
27	Toluene <= 2.7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records during operation.[N.J.A.C. 7:27-22.16(o)].	Toluene: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS5 Process 3 using 6R-0126**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 2.17 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 2.17 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Titanium tetrachloride <= 0.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS9 Process 3 using 6R - 101**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.6 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Hexane (n-) <= 0.38 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hydrogen chloride <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.033 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Ethyl chloride <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS11 Process 3 using 6C - 102**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Titanium tetrachloride <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS14 Process 3 using 6D - 104**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 10.27 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 10.27 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS18 Process 3 using 6D - 105**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.15 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.15 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS20 Process 3 using 6D - 108**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS25 Process 3 using 6D - 201 A/B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.067 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Titanium tetrachloride <= 0.012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.067 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS28 Process 3 using 6D - 204 A**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS32 Process 3 using 6D - 208**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.158 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.158 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS35 Process 3 using 6D - 301**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.081 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.081 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Titanium tetrachloride <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS38 Process 3 using 6D - 305**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Titanium tetrachloride <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS42 Process 3 using 6D - 310**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.522 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.522 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Titanium tetrachloride <= 0.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hydrogen chloride <= 0.093 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS46 Process 3 using 6R - 401**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 1.5 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Ethyl chloride <= 1.5 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS52 Process 3 using 6D - 507**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS56 Process 3 using 6D - 204B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS60 Process 3 using 6D - 305B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Titanium tetrachloride <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS62 Process 5 using 6D - 305C**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Titanium tetrachloride <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(A)]	None.	None.	None.
5	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS65 Process 3 using 6R - 401A**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 1.5 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Ethyl chloride <= 1.5 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS69 Process 3 using 6D - 104A**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 10.27 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 10.27 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS73 Process 3 using 6D-301 A/B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.081 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.081 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Titanium tetrachloride <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS76 Process 3 using 6D - 201C**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Titanium tetrachloride <= 0.003 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS78 Process 3 using 6BE-150**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 10.27 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 10.27 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS80 Process 3 using 6D-360**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.522 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.522 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Titanium tetrachloride <= 0.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hydrogen chloride <= 0.093 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS81 Process 3 using 6R - 101**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.6 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Hexane (n-) <= 0.382 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hydrogen chloride <= 0.066 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.033 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Ethyl chloride <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS82 Process 3 using 6R - 0125**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Titanium tetrachloride <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Hexane (n-) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS83 Process 3 using 6R-0126**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 2.17 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 2.17 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Titanium tetrachloride <= 0.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS84 Process 3 using 6D - 201C**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.05 lb/hr . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Titanium tetrachloride <= 0.00333 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS85 Process 3 using 6D - 201 A/B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.067 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Titanium tetrachloride <= 0.012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.067 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS86 Process 3 using 6D - 201 A/B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.067 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Titanium tetrachloride <= 0.012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hexane (n-) <= 0.067 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS87 Process 3 using 6D - 204 A**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U208 Bldg. 6 with tumble dryer**
Operating Scenario: **OS88 Process 3 using 6D - 204B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 16.43 lb/hr at PT208. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements at OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.382 lb/hr (batch average). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20001 C-Donor Tank**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Contents type is limited to non-HAP VOC (solid) with a Vapor Pressure <= 0.008 psia. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum annual feed or processing rate <= 3854.4 ton/yr based on 8760 hours of operation per year. [N.J.A.C. 7:27-22.16(e)]	Other: Monthly production records.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(e)]	None.
4	Maximum hourly feed or processing rate <= 880 lbs/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 0.969 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.969 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Carbon monoxide <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.219 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	HAPs (Total) <= 0.75 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Titanium tetrachloride <= 0.75 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20001 C-Donor Tank**
Operating Scenario: **OS1 C-Donor Tank**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with Section N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: The permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Titanium tetrachloride <= 0.17 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

EQUISTAR CHEMICALS LP (18067)
BOP160003

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Equistar Chemicals, LP

Facility ID (AIMS): 18067

Street Address: 340 MEADOW RD
EDISON, NJ 08817

Mailing Address: 340 MEADOW RD
EDISON, NJ 08817

State Plane Coordinates:

X-Coordinate:	552
Y-Coordinate:	4,482
Units:	Meters
Datum:	Unknown
Source Org.:	Other/Unknown
Source Type:	Other/Unknown

County: Middlesex

Location Description:

Industry:

Primary SIC:	2819
Secondary SIC:	
NAICS:	325188

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: **Air Permit Information Contact**

Organization: Equistar Chemicals, LP
Org. Type: LP
Name: Catherine Koenig
NJ EIN:
Title: Environmental Engineer
Phone: (732) 777-7471 x
Fax: (732) 777-2261 x
Other: ( ) - x
Type:
Email: catherine.koenig@lyb.com
Mailing Address: 340 Meadow Rd., Edison, NJ 08817

Contact Type: **BOP - Operating Permits**

Organization: Equistar Chemicals, LP
Org. Type: LP
Name: Catherine Koenig
NJ EIN:
Title: Environmental Supervisor
Phone: (732) 985-6262 x
Fax: (732) 777-2261 x
Other: ( ) - x
Type:
Email: Catherine.Koenig@lyondellbasell.com
Mailing Address: 340 MEADOW RD Edison, NJ 08817

Contact Type: **Environmental Officer**

Organization: Equistar Chemicals, LP
Org. Type: LP
Name: Catherine Koenig
NJ EIN:
Title: Environmental Supervisor
Phone: (732) 985-6262 x
Fax: (732) 777-2261 x
Other: ( ) - x
Type:
Email: Catherine.Koenig@lyondellbasell.com
Mailing Address: 340 MEADOW RD Edison, NJ 08817

EQUISTAR CHEMICALS LP (18067)
BOP160003

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: General Contact

Organization: Equistar Chemicals, LP
Org. Type: Corporation
Name: David Schrutka
NJ EIN:
Title: Site Manager
Phone: (732) 777-2270 x
Fax: (732) 777-2203 x
Other: ( ) - x
Type:
Email: David.Schrutka@lyondellbasell.com
Mailing Address: 340 Meadow Rd.
Edison, NJ 08817

Contact Type: On-Site Manager

Organization: Equistar Chemicals, LP
Org. Type: Corporation
Name: David Schrutka
NJ EIN:
Title: Site Manager
Phone: (732) 777-2270 x
Fax: (732) 777-2203 x
Other: ( ) - x
Type:
Email: David.Schrutka@lyondellbasell.com
Mailing Address: 340 Meadow Rd.
Edison, NJ 08817

Contact Type: Operator

Organization: LyondellBasell
Org. Type: Corporation
Name: LyondellBasell
NJ EIN:
Title:
Phone: (713) 652-7200 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email:
Mailing Address: 1221 McKinney Ave.
Suite 700
Houston, TX 77010

EQUISTAR CHEMICALS LP (18067)
BOP160003

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization: LyondellBasell
Name: LyondellBasell
Title:
Phone: (713) 652-7200 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email:

Org. Type: Corporation
NJ EIN:

Mailing Address: 1221 McKinney Ave.
Suite 700
Houston, TX 77010

Contact Type: Responsible Official

Organization: Equistar Chemicals, LP
Name: David Schrutka
Title: Site Manager
Phone: (732) 777-2270 x
Fax: (732) 777-2203 x
Other: ( ) - x
Type:
Email: David.Schrutka@lyondellbasell.com

Org. Type: Corporation
NJ EIN:

Mailing Address: 340 Meadow Rd.
Edison, NJ 08817

EQUISTAR CHEMICALS LP (18067)
BOP160003

Date: 9/15/2016

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 160001

Description of Modifications: The addition of an 351 BHP emergency diesel engine for an increase in fire water pumping capability.

EQUISTAR CHEMICALS LP (18067)
BOP160003

Date: 09/15/2016

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	Non-Source Piping Leaks	facility wide	7.063	0.000	0.000	0.000	6.615	6.615	0.000	13.44700000	0.000
Total			7.063	0.000	0.000	0.000	6.615	6.615	0.000	13.44700000	0.000

EQUISTAR CHEMICALS LP (18067)
BOP160003

Date: 9/15/2016

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Emergency Mobile Engines; < 1 MMBtu/hr	Emergency Generator	Plantwide	0.090	0.050	1.758	0.003	0.003	0.003	0.000	0.00000000	0.000
IS22	Tanks, non-VOC, vapor pressure < 0.02 psia	Storage Vessel	facility wide	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS23	Tanks, non-VOC, <= 10,000 gallons	Storage Vessel	facility wide	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS24	Tanks, gasoline, < 2,000 gallons	Storage Vessel	facility wide	1.580	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS25	Tanks, fuel oil, vapor pressure <0.02 psia	Storage Vessel	facility wide	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS26	Tanks, non-HAP VOC, vapor pressure <0.02 psia	Storage Vessel	facility wide	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS27	Parts washer, unheated, open top, <6 sf, <100 gallons	Cleaning Machine (Open Top: Cold)	maintenance shop	0.883								
IS28	Polytest Reactor Equipment No.46R-101 & 46R201	Other Equipment		1.192								
Total				4.045	0.050	1.758	0.003	0.003	0.003	0.000	0.00000000	0.000

EQUISTAR CHEMICALS LP (18067) Date: 9/15/2016
BOP160003

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1		Fuel Oil/Hydrochloric Acid storage Tank	Storage Vessel	2112		No		
E2	WWNP	Wastewater Neutralization & Collection Sumps- 5 Units	Manufacturing and Materials Handling Equipment	PCP020010	11/30/1990	No	11/30/1990	
E3		175 HP Diesel Engine	Stationary Reciprocating Engine	117472		No	6/9/1994	
E4		Hydrocarbon Storage Tank	Storage Vessel	72960		No	8/13/1985	
E5	351-BHP	351-BHP Diesel Engine	Stationary Reciprocating Engine					
E8		Solvent water storage tank	Storage Vessel	110386		No	7/10/1992	
E32		Process vessel Aliphatic Phthalate	Manufacturing and Materials Handling Equipment	97759		No	7/19/1990	
E33		Metering Drum	Manufacturing and Materials Handling Equipment	97760		No	7/19/1990	
E64	H-121	Boiler	Boiler	115340		No	10/22/1993	
E65	H-131	Boiler	Boiler	115340		No	10/22/1993	
E83		Homogenizer	Manufacturing and Materials Handling Equipment	126689		No	7/23/1996	
E84		Caustic Storage Tank	Storage Vessel	71417		No	5/13/1985	
E143	17T002	25,000 Gallon Storage Tank	Storage Vessel	61999		No	7/10/1992	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E145		Groundwater Treatment System for Biotreatment	Manufacturing and Materials Handling Equipment	Log # 01972585		No	11/1/1997	
E180	D-109	Surge Bin (existing)	Other Equipment	PCP020006	9/9/1990		9/9/1990	
E181	D-109A	Surge Bin (existing)	Other Equipment	PCP020006	9/9/1990		9/9/1990	
E182	D-131B	Hold Bin (existing)	Other Equipment	PCP020006	9/9/1990		9/9/1990	
E183	D-110	Expansion Tank (existing)	Other Equipment	PCP020006	9/9/1990		9/9/1990	
E200	6D-0124	Catalyst Anhydride Hopper	Manufacturing and Materials Handling Equipment	PCP020001, 72967	8/13/1985	No	1/7/1986	
E20801	6R-0125	Solution Reactor	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20802	6R-0126	Catalyst Reactor	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20803	6R-101	Catalyst Raector	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20804	6C-102	Elutriation Column	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20805	6D-104	Catalyst Slurry Holder	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E20806	6D-105	C1-C9 Hydrocarbon Holder	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20807	6D-108	Waste Solvent Hydrocarbon Hold Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20808	6D-0130	Back Flush Drum	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20809	6PF--0130	Ceramic Filter for Catalyst	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20810	6D-201 A/B	Spent Hydrocarbon Storage Tanks	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20811	6D-204 A	Distilled Hydrocarbon Storage Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20812	6D-208	C1-C9 Hydrocarbons Drain Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20813	6D-301	Spent P Storage Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20814	6D-305 A	Distilled P Storage Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E20815	6D-310	Vacuum Pump Service Drum	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20816	6R-401	Mud Decomposer Reactors	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20817	6D-0410	HC Separator	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20818	6D-507	Seal Oil Holder	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20819	6D-204 B	Distilled Hydrocarbon Storage Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20820	6D-305 B	Distilled "P" Storage Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20821	6D-305 C	Pure P Storage Tank	Manufacturing and Materials Handling Equipment	PCP030001	4/29/1992	No	4/29/1992	
E20822	6R-401 A	Mud Decomposer Reactor	Manufacturing and Materials Handling Equipment	PCP030001	2/15/2000	No		
E20823	6D-104 A	Catalyst Slurry Holder	Manufacturing and Materials Handling Equipment	PCP030001	2/15/2000	No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E20824	6D-301A/B	Spent P Storage Tanks	Manufacturing and Materials Handling Equipment	PCP030001	5/31/2003	No	4/29/1992	
E20825	6D-201C	Spent Hydrocarbon Storage tank	Manufacturing and Materials Handling Equipment	PCP030001	2/15/2000	No		
E20826	6BE-150	Tumble Dryer	Manufacturing and Materials Handling Equipment	PCP030001	9/1/2001	No		
E20827	6D -360	Vacuum Service Drum	Manufacturing and Materials Handling Equipment	BOP990001	8/31/2005	No		
E24002	6D-123	Raw Matrerial Feed Hopper	Manufacturing and Materials Handling Equipment	PCP020002, 97758	3/1/2002	No	5/1/2002	

18067 EQUISTAR CHEMICALS LP BOP160003 E1 (Storage Vessel)
Print Date: 9/15/2016

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	25,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	29.00
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E3 (Stationary Reciprocating Engine)
Print Date: 9/15/2016

Make:	Cummins
Manufacturer:	Cummins
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.36
Class:	Rich Burn
Description:	
Duty:	Standby Power
Description:	
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	4-stroke
Power Output (BHP):	175
Electric Output(KW):	130
Compression Ratio:	24
Ignition Type:	Compression
Description:	
Engine Speed (RPM):	
Engine Exhaust Temperature (°F):	1100
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8000
Output Type:	Electric
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	○ Yes ● No
Is the Engine Using an Aftercooler?	○ Yes ● No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☐	Ignition Timing Retard	☐
Low Emission Combustion	☐	Non-Selective Catalytic Retard (NSCR)	☐
Other	☐		

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?	● Yes ○ No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

18067 EQUISTAR CHEMICALS LP BOP160003 E4 (Storage Vessel)
Print Date: 9/15/2016

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	23,500
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	27.40
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	44.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	27.40
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E5 (Stationary Reciprocating Engine)
Print Date: 9/15/2016

Make:	JOHN DEERE/CLARK FIRE ENGINE
Manufacturer:	JOHN DEERE
Model:	JW6H-UFADDO
Maximum Rated Gross Heat Input (MMBtu/hr):	2.6
Class:	Lean Burn
Description:	
Duty:	Other
Description:	FIRE PUMP
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	4-stroke
Power Output (BHP):	351
Electric Output(KW):	
Compression Ratio:	16
Ignition Type:	Compression
Description:	
Engine Speed (RPM):	2200
Engine Exhaust Temperature (°F):	800
Air to Fuel Ratio at Peak Load:	25.36
Ratio Basis:	Volume Basis
Lambda Factor (scfm/scfm):	1.74
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	Pump/Compressor
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	(●) Yes ( ) No
Is the Engine Using an Aftercooler?	(●) Yes ( ) No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☑	Ignition Timing Retard	☐
Low Emission Combustion	☑	Non-Selective Catalytic Retard (NSCR)	☐
Other	☑		

Description: HPCR FUEL SYSTEM, EGR

Have you attached a diagram showing the location and/or the configuration of this equipment?	( ) Yes (●) No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	(●) Yes ( ) No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

18067 EQUISTAR CHEMICALS LP BOP160003 E8 (Storage Vessel)
Print Date: 9/15/2016

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	15,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	23.75
Width (ft):	
Diameter (ft):	11.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	20.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	10T-250

18067 EQUISTAR CHEMICALS LP BOP160003 E32 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	process vessel
Capacity:	7.63E+02
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E33 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Phthalate
Capacity:	7.04E+02
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E64 (Boiler)
Print Date: 9/15/2016

Make:	
Manufacturer:	Cleaver Brooks
Model:	E-504
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	19.00
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	19,000.00
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

Is the boiler using? (check all that apply):

Low NOx Burner:	☐ Type:	
Staged Air Combustion:	☐	
Flue Gas Recirculation (FGR):	☐ Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 E65 (Boiler)
Print Date: 9/15/2016

Make:	
Manufacturer:	Cleaver Brooks
Model:	E-504
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	19.00
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	19,000.00
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

Is the boiler using? (check all that apply):

Low NOx Burner:	☐ Type:	
Staged Air Combustion:	☐	
Flue Gas Recirculation (FGR):	☐ Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 E83 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Homogenizer
Capacity:	4.10E+01
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	16T-601

18067 EQUISTAR CHEMICALS LP BOP160003 E84 (Storage Vessel)
Print Date: 9/15/2016

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	17,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	20.00
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E143 (Storage Vessel)
Print Date: 9/15/2016

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	25,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	29.00
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E145 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Groundwater treatment system for biotreatment
Capacity:	1.20E+01
Units:	other units
Description (if other):	lbs/hr air
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E180 (Other Equipment)
Print Date: 9/15/2016

Make:	Unknown
Manufacturer:	Unknown
Model:	Unknown
Equipment Type:	Surge Bin
Capacity:	9.80
Units:	ft^3
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- (●) Yes
- ( ) No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ( ) Yes
- (●) No

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 E181 (Other Equipment)
Print Date: 9/15/2016

Make:	Unknown
Manufacturer:	Unknown
Model:	Unknown
Equipment Type:	Surge Bin
Capacity:	9.80
Units:	ft^3
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- (●) Yes
- ( ) No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ( ) Yes
- (●) No

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 E182 (Other Equipment)
Print Date: 9/15/2016

Make:	Unknown
Manufacturer:	Unknown
Model:	Unknown
Equipment Type:	Surge Bin
Capacity:	600.00
Units:	ft^3
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- (●) Yes
- ( ) No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ( ) Yes
- (●) No

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 E183 (Other Equipment)
Print Date: 9/15/2016

Make:	Unknown
Manufacturer:	Unknown
Model:	Unknown
Equipment Type:	Expansion Tank
Capacity:	11.00
Units:	gallons
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- (●) Yes
- ( ) No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ( ) Yes
- (●) No

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 E200 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Anhydride
Capacity:	1.95E+02
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E20801 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	5.00E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20802 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	4.90E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20803 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	7.50E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20804 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Elutrition Column
Capacity:	7.20E+05
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20805 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Slurry Holder
Capacity:	1.50E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20806 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Hx Holder
Capacity:	9.62E+02
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20807 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Hx Holder
Capacity:	1.50E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20808 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Back Flush Drum
Capacity:	1.90E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20809 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Ceramic Filter
Capacity:	5.10E+01
Units:	other units
Description (if other):	cu.meter/hour
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20810 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Spent Hx Holder
Capacity:	2.97E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20811 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Hx Holder
Capacity:	2.10E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20812 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Hx Drain Tank
Capacity:	5.00E+01
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20813 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Spent P Storage
Capacity:	1.60E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20814 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Distilled P Storage Tank
Capacity:	1.50E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20815 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Vacuum pump service drum
Capacity:	2.00E+01
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20816 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	8.80E+02
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20817 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	HC Seperator
Capacity:	2.10E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20818 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Seal oil holder
Capacity:	3.20E+02
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20819 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Pure Hx Storage Tank
Capacity:	2.10E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20820 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Distilled P Tank
Capacity:	2.10E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20821 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Pure P Storage Tank
Capacity:	2.10E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20822 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	8.80E+02
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20823 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Slurry Holder
Capacity:	1.50E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20824 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	6D-301 A/B - Spent P Storage Tanks
Capacity:	3.10E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data not available

18067 EQUISTAR CHEMICALS LP BOP160003 E20825 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Spent HC Storage Vessel
Capacity:	1.60E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer's data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E20826 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not available
Manufacturer:	Not available
Model:	Not available
Type of Manufacturing and Materials Handling Equipment:	Double Cone Tumble Dryer
Capacity:	1.60E+03
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 E20827 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	Not known
Manufacturer:	Not known
Model:	Not known
Type of Manufacturing and Materials Handling Equipment:	Vacuum pump service drum
Capacity:	2.00E+01
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Manufacturer"s data are not available.

18067 EQUISTAR CHEMICALS LP BOP160003 E24002 (Manufacturing and Materials Handling Equipment)
Print Date: 9/15/2016

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Metal Alkoxide
Capacity:	8.80E+02
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

EQUISTAR CHEMICALS LP (18067) Date: 9/15/2016
BOP160003

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD4	6E-151	Condenser, U208	Condenser	9/1/2001	No		
CD5	6E-105	Condenser, U208	Condenser	9/1/2001	No		
CD6	6E-404	Condenser, U208	Condenser	6/1/2007	No		
CD48		A400 Absorption, U55	Scrubber (Other)		No	7/23/1996	
CD20801	6C-401	Packed Tower Scrubber, U208	Scrubber (Packed Tower)	4/29/1992	No	4/29/1992	
CD20802	6C-402	Packed Tower Scrubber, U208	Scrubber (Packed Tower)	4/29/1992	No	4/29/1992	
CD20803	6E-210	Condenser, U208	Condenser	4/29/1992	No	4/29/1992	

18067 EQUISTAR CHEMICALS LP BOP160003 CD4 (Condenser)
Print Date: 9/15/2016

Make:	Not available
Manufacturer:	Not available
Model:	
Condenser Type:	Shell & Tube
Type of Material of Which Shell Is Constructed:	CS
Type of Material of Which Tubes Are Constructed:	304 SS
Minimum Gas Inlet Temperature (°F):	50.0
Maximum Gas Inlet Temperature (°F):	350.0
Heat Transfer (Contact) Surface Area (ft^2):	151.0
Maximum Gas Flow (acfm):	300.0
Minimum Cooling Medium Flow Rate (gpm):	35.0
Maximum Cooling Medium Flow Rate (gpm):	
Minimum Heat Removal Capacity (BTU/hr):	99,999.00
Liquid to Gas Flow Ratio for Optimal Efficiency:	0.133
Minimum Cooling Medium Inlet Temperature (°F):	-14
Maximum Cooling Medium Inlet Temperature (°F):	
Minimum Cooling Medium Outlet Temperature (°F):	
Maximum Cooling Medium Outlet Temperature (°F):	
Minimum Gas Outlet Temperature (°F):	
Maximum Gas Outlet Temperature (°F):	
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	Dynalen - Chilling Medium
Use of Condensate:	Process (Reflux)
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 CD5 (Condenser)
Print Date: 9/15/2016

Make:	Not available
Manufacturer:	Not available
Model:	Not available
Condenser Type:	Shell & Tube
Type of Material of Which Shell Is Constructed:	CS
Type of Material of Which Tubes Are Constructed:	SS 304
Minimum Gas Inlet Temperature (°F):	50.0
Maximum Gas Inlet Temperature (°F):	140.0
Heat Transfer (Contact) Surface Area (ft^2):	145.0
Maximum Gas Flow (acfm):	348.0
Minimum Cooling Medium Flow Rate (gpm):	10.0
Maximum Cooling Medium Flow Rate (gpm):	20.0
Minimum Heat Removal Capacity (BTU/hr):	16,000.00
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (°F):	-13
Maximum Cooling Medium Inlet Temperature (°F):	5
Minimum Cooling Medium Outlet Temperature (°F):	
Maximum Cooling Medium Outlet Temperature (°F):	
Minimum Gas Outlet Temperature (°F):	
Maximum Gas Outlet Temperature (°F):	
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	Dynelene - Chilling Medium
Use of Condensate:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	

Have you attached data from recent performance testing? ○ Yes ● No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? ○ Yes ● No

Have you attached a diagram showing the location and/or configuration of this control apparatus? ○ Yes ● No

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 CD6 (Condenser)
Print Date: 9/15/2016

Make:	Not Available
Manufacturer:	Not Available
Model:	Not Available
Condenser Type:	Shell & Tube
Type of Material of Which Shell Is Constructed:	CS
Type of Material of Which Tubes Are Constructed:	CS
Minimum Gas Inlet Temperature (°F):	50.0
Maximum Gas Inlet Temperature (°F):	185.0
Heat Transfer (Contact) Surface Area (ft^2):	200.0
Maximum Gas Flow (acfm):	348.0
Minimum Cooling Medium Flow Rate (gpm):	10.0
Maximum Cooling Medium Flow Rate (gpm):	50.0
Minimum Heat Removal Capacity (BTU/hr):	50,000.00
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (°F):	-13
Maximum Cooling Medium Inlet Temperature (°F):	90
Minimum Cooling Medium Outlet Temperature (°F):	-13
Maximum Cooling Medium Outlet Temperature (°F):	120
Minimum Gas Outlet Temperature (°F):	-13
Maximum Gas Outlet Temperature (°F):	120
Minimum Condensate Outlet Temperature (°F):	-13
Maximum Condensate Outlet Temperature (°F):	120
Type of Cooling Medium:	Dynelene - Chilling Medium
Use of Condensate:	Air Pollution Control
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	6
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Cooling Medium Outlet Temperature less than 120 F
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No
Comments:	

18067 EQUISTAR CHEMICALS LP BOP160003 CD48 (Scrubber (Other))
Print Date: 9/15/2016

Make:	
Manufacturer:	Procedair
Model:	150
Scrubber Type:	O4
Description:	Hybrid
Is the Scrubber Used for Particulate Control?	(●) Yes ( ) No
Is the Scrubber Used for Gas Control?	(●) Yes ( ) No
Is the Scrubber Equipped with a Mist Eliminator?	(●) Yes ( ) No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H20):	
Minimum Operating Liquid Flow Rate (gpm):	1.00
Maximum Operating Liquid Flow Rate (gpm):	10.00
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	300.00
Maximum Operating Gas Flow Rate (acfm):	1,600.00
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H20):	4.72
Maximum Operating Pressure Drop (in. H20):	6.40
Method of Monitoring Pressure Drop:	pressure drop instrument
Relative Direction of the Gas-Liquid Flow:	Co-Current
Description:	
Number of Plates:	
Type of Plates:	
Spacing between Plates (in.):	
Maximum Inlet Gas Temperature (°F):	
Maximum Outlet Gas Temperature (°F):	
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	( ) Yes (●) No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	( ) Yes (●) No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	(●) Yes ( ) No

Comments:

18067 EQUISTAR CHEMICALS LP BOP160003 CD20801 (Scrubber (Packed Tower))
Print Date: 9/15/2016

Make:	Not Known
Manufacturer:	Not available
Model:	Not available
Is the Scrubber Used for Particulate Control?	(●) Yes ( ) No
Is the Scrubber Used for Gas Control?	(●) Yes ( ) No
Is the Scrubber Equipped with a Mist Eliminator?	(●) Yes ( ) No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
Method of Monitoring Pump Discharge Pressure:	Not available
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	Not applicable
Minimum Scrubber Medium Inlet Pressure (in. H20):	
Minimum Operating Liquid Flow Rate (gpm):	1.00
Maximum Operating Liquid Flow Rate (gpm):	14.00
Method of Monitoring Liquid Flow Rate:	Flow Meter
Minimum Operating Gas Flow Rate (acfm):	2.66
Maximum Operating Gas Flow Rate (acfm):	160.00
Method of Monitoring Gas Flow Rate:	Not available
Minimum Operating Pressure Drop (in. H20):	2.40
Maximum Operating Pressure Drop (in. H20):	278.00
Method of Monitoring Pressure Drop:	Not available
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	27
Type of Packing Material:	Berl Saddles
Size of Packing Material (in):	1.5
Tower Diameter (ft):	1.67
Total Tower Height (ft):	40.50
Maximum Operating Temperature of the Inlet Gas (°F):	149.0
Maximum Operating Temperature of the Exhuast Gas(°F):	149.0
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	25
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	( ) Yes (●) No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	( ) Yes (●) No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	( ) Yes (●) No
Comments:	NJDEP has the stack test data that was obtained in 2004.

18067 EQUISTAR CHEMICALS LP BOP160003 CD20802 (Scrubber (Packed Tower))
Print Date: 9/15/2016

Make:	Not Known
Manufacturer:	Not available
Model:	Not available
Is the Scrubber Used for Particulate Control?	(●) Yes ( ) No
Is the Scrubber Used for Gas Control?	(●) Yes ( ) No
Is the Scrubber Equipped with a Mist Eliminator?	(●) Yes ( ) No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
Method of Monitoring Pump Discharge Pressure:	Not available
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	Not available
Minimum Scrubber Medium Inlet Pressure (in. H20):	
Minimum Operating Liquid Flow Rate (gpm):	1.00
Maximum Operating Liquid Flow Rate (gpm):	14.00
Method of Monitoring Liquid Flow Rate:	Flow Meter
Minimum Operating Gas Flow Rate (acfm):	2.66
Maximum Operating Gas Flow Rate (acfm):	160.00
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H20):	2.40
Maximum Operating Pressure Drop (in. H20):	278.00
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	27
Type of Packing Material:	Berl Saddles
Size of Packing Material (in):	1.5
Tower Diameter (ft):	1.67
Total Tower Height (ft):	40.50
Maximum Operating Temperature of the Inlet Gas (°F):	149.0
Maximum Operating Temperature of the Exhuast Gas(°F):	149.0
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	25
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	( ) Yes (●) No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	( ) Yes (●) No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	( ) Yes (●) No
Comments:	NJDEP has stack test data that was obtained in 2004

18067 EQUISTAR CHEMICALS LP BOP160003 CD20803 (Condenser)
Print Date: 9/15/2016

Make:	Double Pipe
Manufacturer:	Mohawk Manufacturing Corporation
Model:	Double Pipe
Condenser Type:	Shell & Tube
Type of Material of Which Shell Is Constructed:	SA-106 GRB
Type of Material of Which Tubes Are Constructed:	Not Available
Minimum Gas Inlet Temperature (°F):	194.0
Maximum Gas Inlet Temperature (°F):	200.0
Heat Transfer (Contact) Surface Area (ft²):	64.6
Maximum Gas Flow (acfm):	3.8
Minimum Cooling Medium Flow Rate (gpm):	1.0
Maximum Cooling Medium Flow Rate (gpm):	12.0
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	3.17
Minimum Cooling Medium Inlet Temperature (°F):	85
Maximum Cooling Medium Inlet Temperature (°F):	85
Minimum Cooling Medium Outlet Temperature (°F):	95
Maximum Cooling Medium Outlet Temperature (°F):	95
Minimum Gas Outlet Temperature (°F):	95
Maximum Gas Outlet Temperature (°F):	194
Minimum Condensate Outlet Temperature (°F):	95
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	Water
Use of Condensate:	Air Pollution Control
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	None
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No
Comments:	

EQUISTAR CHEMICALS LP (18067)
BOP160003

Date: 9/15/2016

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	1	Glass lined; Emission Unit U2	Round	2	15	150	77.0	77.0	77.0	0.9	0.7	1.1	Up	
PT8	18	Carbon steel; Emission Unit U54	Round	12	14	180	1,100.0	1,100.0	1,100.0	808.0	824.0	840.0	Horizontal	
PT16	17T002	Glass lined; Emission Unit U4	Round	2	15	150	77.0	77.0	77.0	0.9	0.7	1.1	Up	
PT26	Fugitive PT	WWNP Unit Fugitive Emission Pt for 5 pts	Surface			375	55.0	30.0	110.0	1,300.0	0.0	1,600.0	Up	
PT31	113	Carbon steel; Emission Unit U9	Round	4	28	140	77.0	77.0	77.0	0.0	0.0	0.0	Up	
PT48	135	Carbon steel; Emission Unit U53	Round	2	30	250	68.0	77.0	77.0	3.0	2.4	3.6	Up	
PT52	351-BHP Eng	351-BHP Diesel Engine												
PT73	D-0124 (206)	Vent For Feed Hopper 6D-0124, U73	Round	1	37	230	75.0	32.0	100.0	0.1	0.1	1.0	Down	
PT77	210	Carbon steel; Emission Unit U19	Round	3	2	280	122.0	77.0	146.0	0.2	0.2	0.3	Down	
PT78	211	Carbon steel; Emission Unit U20	Round	2	70	290	122.0	77.0	146.0	1.0	0.8	1.2	Horizontal	
PT109	233	Boiler Stack	Round	42	50	420	450.0	390.0	510.0	13,800.0	11,000.0	16,600.0	Up	
PT112	236	Carbon steel; Emission Unit U55	Round	10	60	50	77.0	77.0	77.0	600.0	600.0	600.0	Up	
PT118	GWB10-001	Carbon steel; Emission Unit U56	Round	62	10	540	77.0	77.0	77.0	140.0	112.0	168.0	Up	
PT208	Stack 208	Building 6 Catalyst Processes, U208	Round	2	70	290	122.0	70.0	146.0	20.0	0.1	400.0	Up	
PT216	216	Stack; Emission Unit U102	Round	1	62	200	70.0	50.0	90.0	0.2	0.1	0.2	Up	

EQUISTAR CHEMICALS LP (18067)
BOP160003

Date: 9/15/2016

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT20001	6D-123	C-Donor Holding Tank, U20001	Round	1	37	230	75.0	32.0	100.0	0.1	0.1	1.0	Down	

EQUISTAR CHEMICALS LP (18067)
BOP160003

Date: 9/15/2016

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 1 Boiler Boiler I and Boiler II

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Natural Gas	Natural gas is used as fuel in H-121	Normal - Steady State	E64		PT109	1-02-006-02	0.0	8,760.0	A	5,500.0	8,300.0	390.0	510.0
OS2	Natural Gas	Natural gas is used as fuel in H-131	Normal - Steady State	E65		PT109	1-02-006-02	0.0	8,760.0	A	5,500.0	8,300.0	390.0	510.0
OS3	Fuel Oil	Fuel oil is used as fuel in H-121	Normal - Steady State	E64		PT109	1-02-005-02	0.0	8,760.0	A	5,500.0	8,300.0	390.0	510.0
OS4	Fuel Oil	Fuel oil is used as fuel in H-131	Normal - Steady State	E65		PT109	1-02-005-02	0.0	8,760.0	A	5,500.0	8,300.0	390.0	510.0

U 2 25000 gallon above ground storage tank which can store #2 fuel oil and 32% HCl

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Storage of 32% Hydrochloric acid	Normal - Steady State	E1		PT1	3-01-070-02	8,760.0	8,760.0					
OS2		Storage of fuel oil	Normal - Steady State	E1		PT1	4-03-010-21	8,760.0	8,760.0					

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U 4 17T002 25000 gallon above ground storage tank for emergency containment of Titanium Tetrachloride/mineral oil and storage of fuel oil #2.

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Pumping and storage of Titanium Tetrachloride/mineral oil.	Normal - Steady State	E143		PT16	4-04-003-14	0.0	8,760.0				51.8	61.0
OS2		Storage of Fuel Oil #2	Normal - Steady State	E143		PT16	4-04-003-16	0.0	8,760.0				51.8	61.0

U 9 Storage of diisobutyl phthalate in above ground tank

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Storage of diisobutylphthalate (DIBP) (vp 0.000145 psia)	Normal - Steady State	E4		PT31								

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U 19 Recirculation of liquid phthalate through molecular sieve

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Process #1	Recirculation of liquid phthalate through molecular sieve	Normal - Steady State	E32		PT77								
OS2	Process #2	Recirculation of liquid phthalate through molecular sieve	Normal - Steady State	E32		PT77								
OS3	Process #3	Recirculation of liquid phthalate through molecular sieve	Normal - Steady State	E32		PT77								
OS4	Process #4	Recirculation of liquid phthalate through molecular sieve	Normal - Steady State	E32		PT77								

U 20 Metering drum for organic additive

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Metering drum for organic additive	Normal - Steady State	E33		PT78								

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U 26 WWNP Wastewater Neutralization & Collection Sumps (WWNP System)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	WWWNP	Wastewater neutralization and collection pits	Normal - Steady State	E2		PT26	3-01-070-01	0.0	8,760.0	B	0.0	1,600.0	32.0	110.0

U 52 351-BHP Eng 351-BHP Diesel Engine

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	351-BHP Eng	351-BHP Diesel Engine for emergency power for fire pump	Normal - Steady State	E5		PT52	2-02-001-02							

U 53 Solvent/water collection tank

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Process #1	Storage of solvent/water	Normal - Steady State	E8										

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U 53 Solvent/water collection tank

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS2	Process #2	Storage of solvent	Normal - Steady State	E8										

U 54 175 HP Emergency Diesel Engine

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Diesel pump for emergency power	Normal - Steady State	E3		PT8	2-02-001-02							

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U 55 Vessel for blending of product(s)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Product blending	Normal - Steady State	E83	CD48 (P)	PT112								

U 56 Temporary Industrial Site Recovery Act project

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Removing VOC's from groundwater	Normal - Steady State	E145		PT118								

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U 73 6D-0124 C-DONOR TANK

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Anhydride feed	Normal - Steady State	E200		PT73			1,372.0					

U 102 Pckg. System Bldg. 6 Packaging System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	D-109	Surge Bin - Product A	Normal - Steady State	E180		PT216	3-01-999-98	0.0	8,040.0	C	0.1	0.2	40.0	90.0
OS2	D-109	Surge Bin - Product B	Normal - Steady State	E180		PT216	3-01-999-98	0.0	8,040.0	C	0.1	0.2	40.0	90.0
OS3	D-109A	Surge Bin - Product A	Normal - Steady State	E181		PT216	3-01-999-98	0.0	8,040.0	C	0.1	0.2	40.0	90.0
OS4	D-109A	Surge Bin - Product B	Normal - Steady State	E181		PT216	3-01-999-98	0.0	8,040.0	C	0.1	0.2	40.0	90.0
OS5	D-131B	D-131B Hold Bin receives product of D-109 Surge Bin prior to discharging to packaging.	Normal - Steady State	E182		PT216	3-01-999-98	0.0	8,040.0	C	0.1	0.2	40.0	90.0
OS6	D-110	D-110 Expansion Tank serves both D-109A and D-109 Surge Bins simultaneously	Normal - Steady State	E183		PT216	3-01-999-98	0.0	8,040.0	C	0.1	0.2	40.0	90.0

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U 208 Bldg. 6 Bldg. 6 with tumble dryer

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS5	Process 3	Process 3 using 6R-0126	Normal - Steady State	E20802	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	4.0	6.0	104.0	120.0
OS9	Process 3	Process 3 using 6R - 101	Normal - Steady State	E20803	CD20801 (P) CD20802 (S)	PT208		7,994.0	8,760.0	C	7.2	7.5	130.0	140.0
OS11	Process 3	Process 3 using 6C - 102	Normal - Steady State	E20804	CD20801 (P) CD20802 (S)	PT208		6,570.0	6,570.0	A	1.0	1.2	40.0	120.0
OS14	Process 3	Process 3 using 6D - 104	Normal - Steady State	E20805	CD20801 (S) CD20802 (T) CD5 (P)	PT208		6,570.0	8,760.0	C	0.2	0.5	40.0	120.0
OS18	Process 3	Process 3 using 6D - 105	Normal - Steady State	E20806	CD20801 (P) CD20802 (S)	PT208		4,229.0	8,760.0	C	2.4	2.5	176.0	180.0
OS20	Process 3	Process 3 using 6D - 108	Normal - Steady State	E20807		PT208		5,913.0	8,760.0	F	40.0	199.8	40.0	120.0
OS25	Process 3	Process 3 using 6D - 201 A/B	Normal - Steady State	E20810	CD20801 (P) CD20802 (S) CD20803 (T)	PT208		8,760.0	8,760.0	C	0.1	0.2	122.0	130.0
OS28	Process 3	Process 3 using 6D - 204 A	Normal - Steady State	E20811	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	0.8	1.0	104.0	120.0
OS32	Process 3	Process 3 using 6D - 208	Normal - Steady State	E20812	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	6.0	7.0	30.0	35.0
OS35	Process 3	Process 3 using 6D - 301	Normal - Steady State	E20813	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	1.6	1.7	167.0	180.0
OS38	Process 3	Process 3 using 6D - 305	Normal - Steady State	E20814	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	1.3	2.5	104.0	110.0

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U 208 Bldg. 6 Bldg. 6 with tumble dryer

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS42	Process 3	Process 3 using 6D - 310	Normal - Steady State	E20815	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	1.1	1.5	50.0	60.0
OS46	Process 3	Process 3 using 6R - 401	Normal - Steady State	E20816	CD20802 (P)	PT208		8,760.0	8,760.0	C	13.6	15.0	122.0	150.0
OS52	Process 3	Process 3 using 6D - 507	Normal - Steady State	E20818	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	0.1	0.2	77.0	90.0
OS56	Process 3	Process 3 using 6D - 204B	Normal - Steady State	E20819	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	0.8	1.0	104.0	110.0
OS60	Process 3	Process 3 using 6D - 305B	Normal - Steady State	E20820	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	1.0	2.0	104.0	110.0
OS62	Process 5	Process 5 using 6D - 305C	Normal - Steady State	E20821	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	0.3	1.0	40.0	110.0
OS65	Process 3	Process 3 using 6R - 401A	Normal - Steady State	E20822	CD20802 (P)	PT208		8,760.0	8,760.0	C	13.6	15.0	122.0	150.0
OS69	Process 3	Process 3 using 6D - 104A	Normal - Steady State	E20823	CD20801 (S) CD20802 (T) CD5 (P)	PT208		8,760.0	8,760.0	C	0.2	0.5	40.0	120.0
OS73	Process 3	Process 3 using 6D-301 A/B	Normal - Steady State	E20824	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	1.6	1.7	167.0	180.0
OS76	Process 3	Process 3 using 6D - 201C	Normal - Steady State	E20825	CD20801 (P) CD20802 (S) CD20803 (T)	PT208		8,760.0	8,760.0	C	1.6	1.7	40.0	100.0
OS78	Process 3	Process 3 using 6BE-150	Normal - Steady State	E20826	CD20801 (S) CD20802 (T) CD4 (P)	PT208		8,760.0	8,760.0	C	2.0	10.0	40.0	400.0

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U 208 Bldg. 6 Bldg. 6 with tumble dryer

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS80	Process 3	Process 3 using 6D-360	Normal - Steady State	E20827	CD20801 (P) CD20802 (S)	PT208		0.0	8,000.0	C	1.1	1.5	50.0	60.0
OS81	Process 3	Process 3 using 6R - 101	Normal - Steady State	E20803	CD20801 (P) CD20802 (S) CD6 (T)	PT208		7,994.0	8,760.0	C	7.2	7.5	130.0	140.0
OS82	Process 3	Process 3 using 6R - 0125	Normal - Steady State	E20801	CD20801 (P) CD20802 (S)	PT208		8,760.0	8,760.0	C	0.1	0.3	40.0	100.0
OS83	Process 3	Process 3 using 6R-0126	Normal - Steady State	E20802	CD20801 (P) CD20802 (S) CD6 (T)	PT208		8,760.0	8,760.0	C	4.0	6.0	104.0	120.0
OS84	Process 3	Process 3 using 6D - 201C	Normal - Steady State	E20825	CD20801 (P) CD20802 (S) CD6 (T)	PT208		8,760.0	8,760.0	C	1.6	1.7	40.0	100.0
OS85	Process 3	Process 3 using 6D - 201 A/B	Normal - Steady State	E20810	CD20801 (P) CD20802 (S) CD6 (T)	PT208		8,760.0	8,760.0	C	0.1	0.2	122.0	130.0
OS86	Process 3	Process 3 using 6D - 201 A/B	Normal - Steady State	E20810	CD20801 (P) CD20802 (S) CD20803 (T) CD6 (T)	PT208		8,760.0	8,760.0	C	0.1	0.2	122.0	130.0
OS87	Process 3	Process 3 using 6D - 204 A	Normal - Steady State	E20811	CD20801 (P) CD20802 (S) CD6 (T)	PT208		8,760.0	8,760.0	C	0.8	1.0	104.0	120.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS88	Process 3	Process 3 using 6D - 204B	Normal - Steady State	E20819	CD20801 (P) CD20802 (S) CD6 (T)	PT208		8,760.0	8,760.0	C	0.8	1.0	104.0	110.0

U 20001 6D-123 C-Donor Tank

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CD-123	C-Donor Tank	Normal - Steady State	E24002		PT20001			8,760.0					